SCHLAGE®

D-Series Levers Service Manual

Security & Safety®

D LEVER SERVICE MANUAL

INTRODUCTION

This manual contains a complete listing of parts and assemblies of D-Series lever locks manufactured by Schlage Lock Company, beginning in 1989. Exploded views of each lock function are provided with an accompanying dot chart to identify parts for replacement purposes.

In addition, this manual provides lock trim ordering procedures, cylinders, latches, strikes and all auxiliary components of D-Series lever locks. Orders for finished components should always show finish designation. Orders for all Schlage® products must be placed through an authorized Schlage distributor or representative.

Schlage D-Series lock parts are manufactured to close tolerances and are interchangeable between functions using the same parts. Conversion of functions is accomplished by identifying the parts necessary for substitution and following the assembly procedures as illustrated on the lock drawings.

For items not listed in this service manual, contact Schlage Lock Company for availability or allowable substitutions.

Schlage Lock Company reserves the right to make changes in designs and specifications or to make additions or improvements on its products without notice and without incurring any obligation to incorporate them on products previously manufactured. The Schlage Lock Company is not responsible for any modification, addition, or alteration to our product by others.

CERTIFICATIONS

ANSI/BHMA A156.2-1996.
Series 4000, Grade I.
All functions U.L. listed for 3 hour door

DOOR RANGE

Non-Vandlgard functions D10 through D85
1 5/8" - 2" Standard.
1 3/8" Regular parts assembled to order

Vandlgard™ functions D91 through D96:
1 5/8" - 1 7/8" Standard.

METRIC CONVERSION CHART

All dimensions shown in this service manua are in inches. To convert to millimeters, use the metric conversion chart shown belc

Inch	MM	Inch	MM
1/32	0.79	5/8	15.88
1/16	1.59	21/32	16.67
3/32	2.38	11/16	17.46
1/8	3.18	23/32	18.26
5/32	3.97	3/4	19.05
3/16	4.76	25/32	19.84
7/32	5.56	13/16	20.64
1/4	6.35	27/32	21.43
9/32	7.14	7/8	22.23
5/16	7.94	29/32	23.02
11/32	8.73	15/16	23.81
3/8	9.53	31/32	24.61
13/32	10.32	1	25.40
7/16	11.11	2	50.8
15/32	11.91	3	76.2
1/2	12.70	4	101.6
17/32	13.49	5	127.0
9/16	14.29	6	152.4
19/32	15.08	7	177.8

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June 1998

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SFIC = Designed to accept 6 or 7 pin Small Format Interchangeable Cores manufactured by Arrow®, Best®, Falcon® and KSP®.

FINISHES

Schlage Lock finishes are durable, top quality finishes obtained by the careful processing of solid brass, bronze, stainless steel or other materials. Where required, a protective clear coating is applied and cured under high temperature. It is important that climatic conditions and usage be taken under consideration when selecting finishes. This is especially true in areas subjected to strong corrosive vapors, humid climate or sea air, which, in a short time, may have a damaging effect on metal finishes.

The longevity and preservation of the finish appearance is determined by base metal and finishing process. Clear protective coating or other organic finishing applications may require different methods of cleaning and care. As an example, non-clear coated finishes should not be cleaned with soaps or any solvents; organically coated surfaces should periodically be cleaned with a mild non-abrasive soap and buffed lightly with a clean cloth. The type of base metal and finishing techniques must be considered when applying any cleaning or preservative method. Contact the Schlage Technical Services Department for further information on the care of finished hardware.

In some instances for customer convenience, the most appropriate BHMA finish symbols are used to indicate similarity of appearance regardless of base metal or finishing process. D-Series levers are zinc-based material and are plated to match finishes indicated. Finish numbers in the 600 Series are the BHMA (Builders Hardware Manufacturers Association) industry standard. The nearest old U.S. equivalent code designations are shown in parenthesis ( ).

| Symbol	Description
605 (3)	BRIGHT BRASS Clear Coated
606 (4)	SATIN BRASS Clear Coated
612 (10)	SATIN BRONZE Clear Coated
613 (10B)	OIL RUBBED BRONZE Oxidized Satin Bronze, Oil Rubbed, No Coating
625 (26)	BRIGHT CHROMIUM PLATED No Coating
626 (26D)	SATIN CHROMIUM PLATED No Coating

LUBRICATION

D-Series lever lock mechanisms are designed for durability and seldom need servicing. During assembly, those points of contact which require lubrication for ease of operation are given an application of high quality petroleum based grease. A touch of flaked graphite is applied to the pin tumbler plug during assembly of the cylinder unit. No further servicing should be required for an extended period except where locks are subjected to extremely heavy traffic. Also, if located in particularly dusty or dirty areas, the grease may become contaminated resulting in a slow or otherwise unsatisfactory operation. The case mechanism should then be cleaned in a noncorrosive petroleum solvent and relubricated. Flaked graphite only should be applied to the cylinder unit by blowing a small quanity into the keyway.

Note: Precautionary measures according to solvent manufacturers instructions should always be followed.

TACTILE WARNING

Tactile warning is achieved by milling three (3) grooves on the inside surface of the D-Series lever. This is the means of identifying hazardous areas, such as electrical closets and mechanical equipment, for the visually impaired. Tactile warning is available on all D-Series lever designs. When ordering specify if both sides, outside or inside levers require tactile warning. Order by specifying design code 8AT (Athens), 8RO (Rhodes) or 8SP (Sparta).

8SP Design
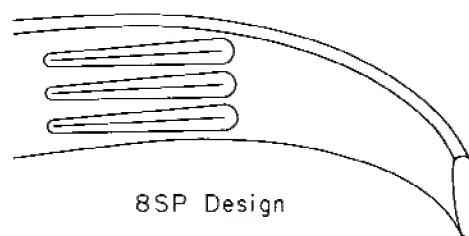
D10S

CHASSIS ASSEMBLY
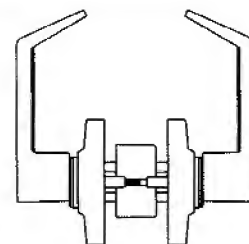
PASSAGE LATCH
BOTH LEVERS ALWAYS UNLOCKED.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

31

20

26

43

44

2

67

34

93

1

3

20

32

60

42

67

1

33

66-2

2

3
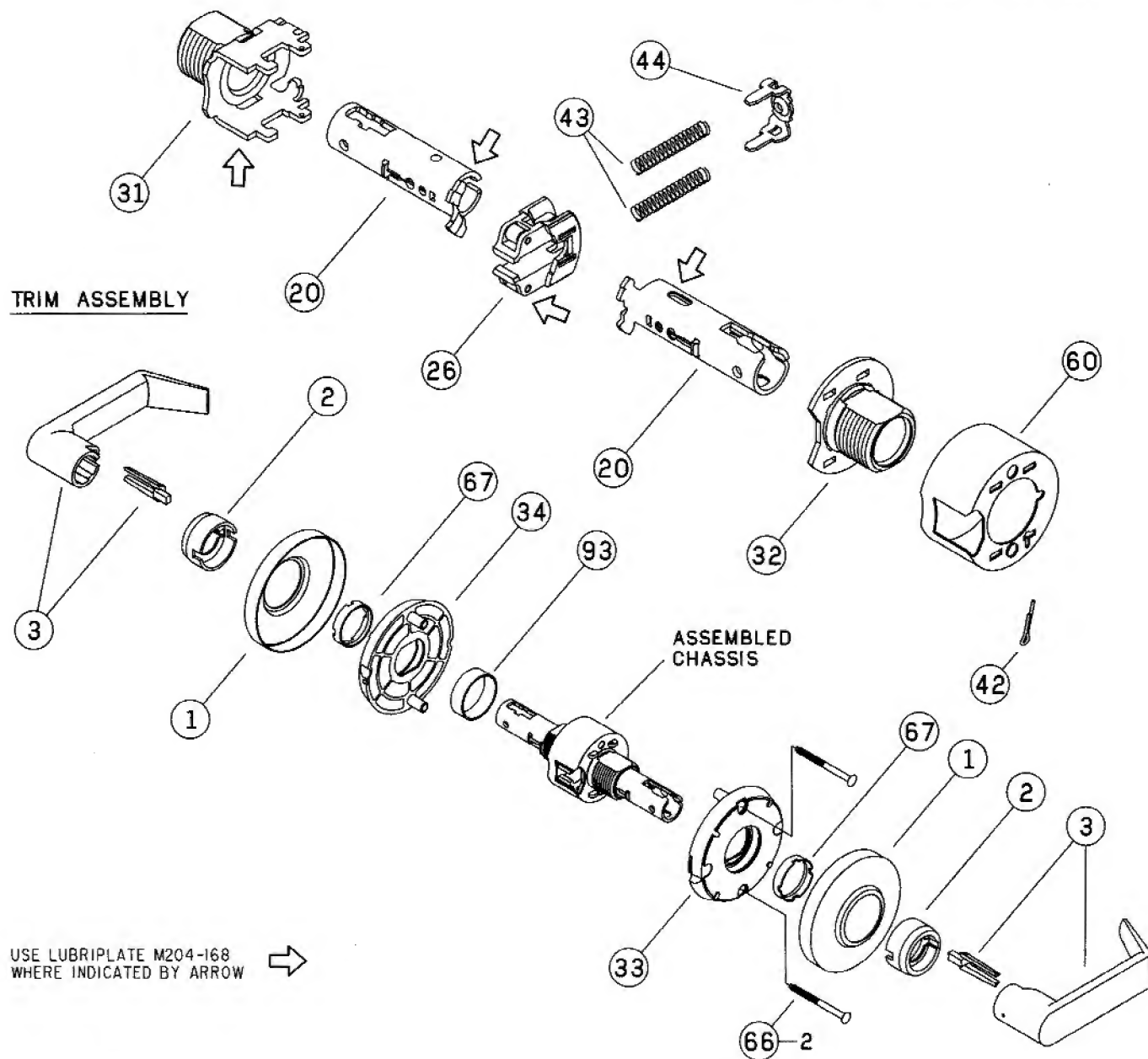
D12D
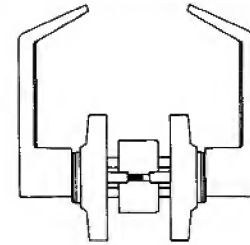
CHASSIS ASSEMBLY

EXIT LOCK
UNLOCKED BY LEVER INSIDE ONLY.
OUTSIDE LEVER ALWAYS FIXED.

31

68

44

43

39

26

20

60

TRIM ASSEMBLY

48

2

67

34

93

32

3

72

1

66

ASSEMBLED
CHASSIS

67

1

2

3

33

66-2

42

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

SCHLAGE.
June 1998
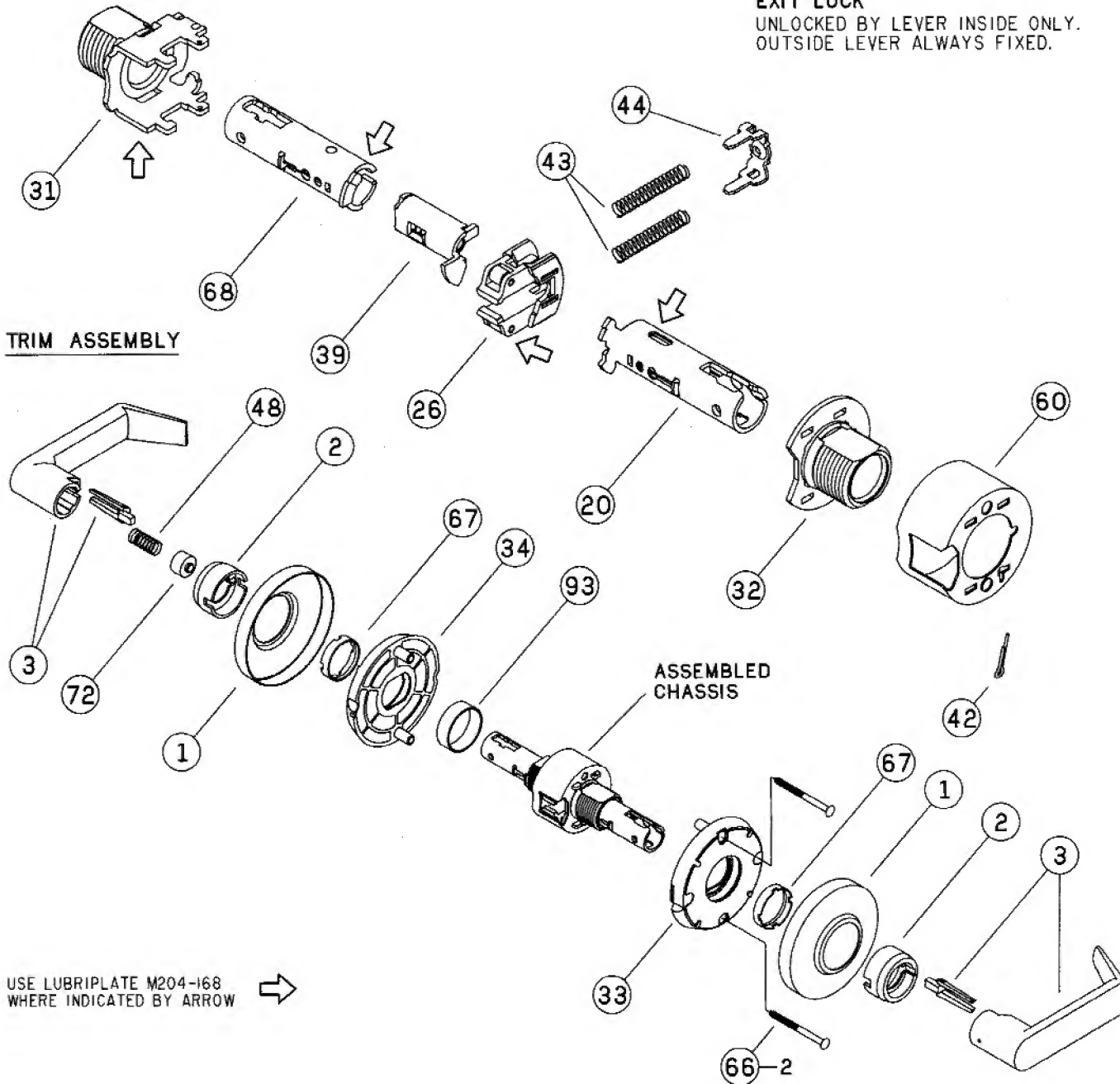
D12DEL

CHASSIS ASSEMBLY
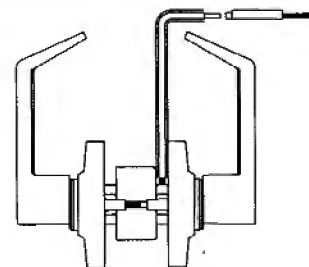
**ELECTRICALLY LOCKED
(FAIL SAFE)**
AUXILIARY LATCH DEADLOCKS LATCHBOLT
WHEN DOOR IS CLOSED. OUTSIDE LEVER
CONTINUOUSLY LOCKED ELECTRICALLY UNTIL
UNLOCKED BY SWITCH OR POWER FAILURE.
INSIDE LEVER ALWAYS FREE FOR IMMEDIATE
EXIT.
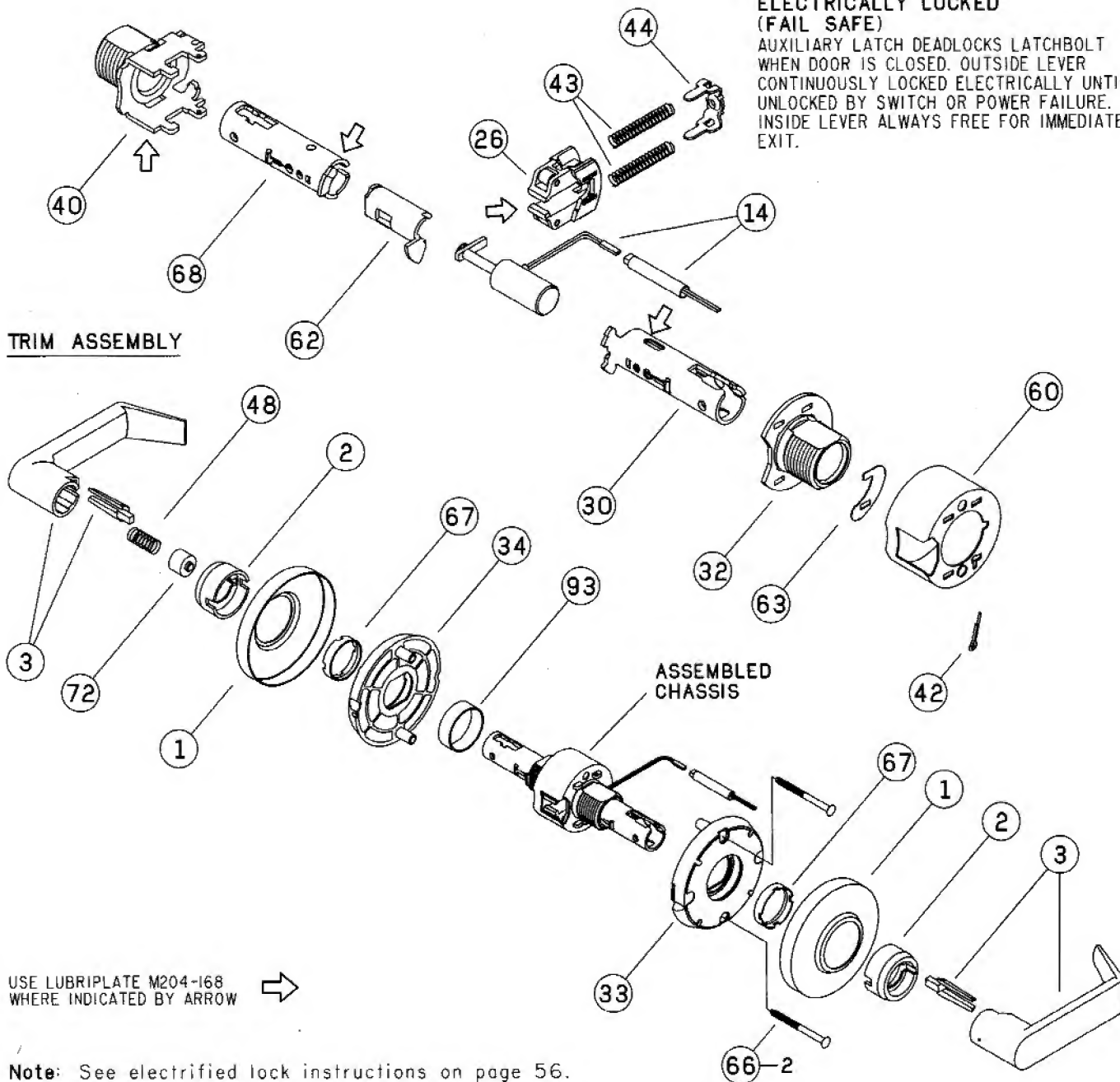
TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

Note: See electrified lock instructions on page 56.

D12DEU

CHASSIS ASSEMBLY
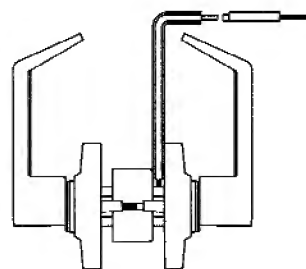
**ELECTRICALLY UNLOCKED
(FAIL SECURE)**
AUXILIARY LATCH DEADLOCKS LATCHBOLT
WHEN DOOR IS CLOSED. OUTSIDE LEVER
CONTINUOUSLY LOCKED UNTIL UNLOCKED BY
ELECTRIC CURRENT. INSIDE LEVER ALWAYS
FREE FOR IMMEDIATE EXIT.

TRIM ASSEMBLY

**ASSEMBLED
CHASSIS**

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW
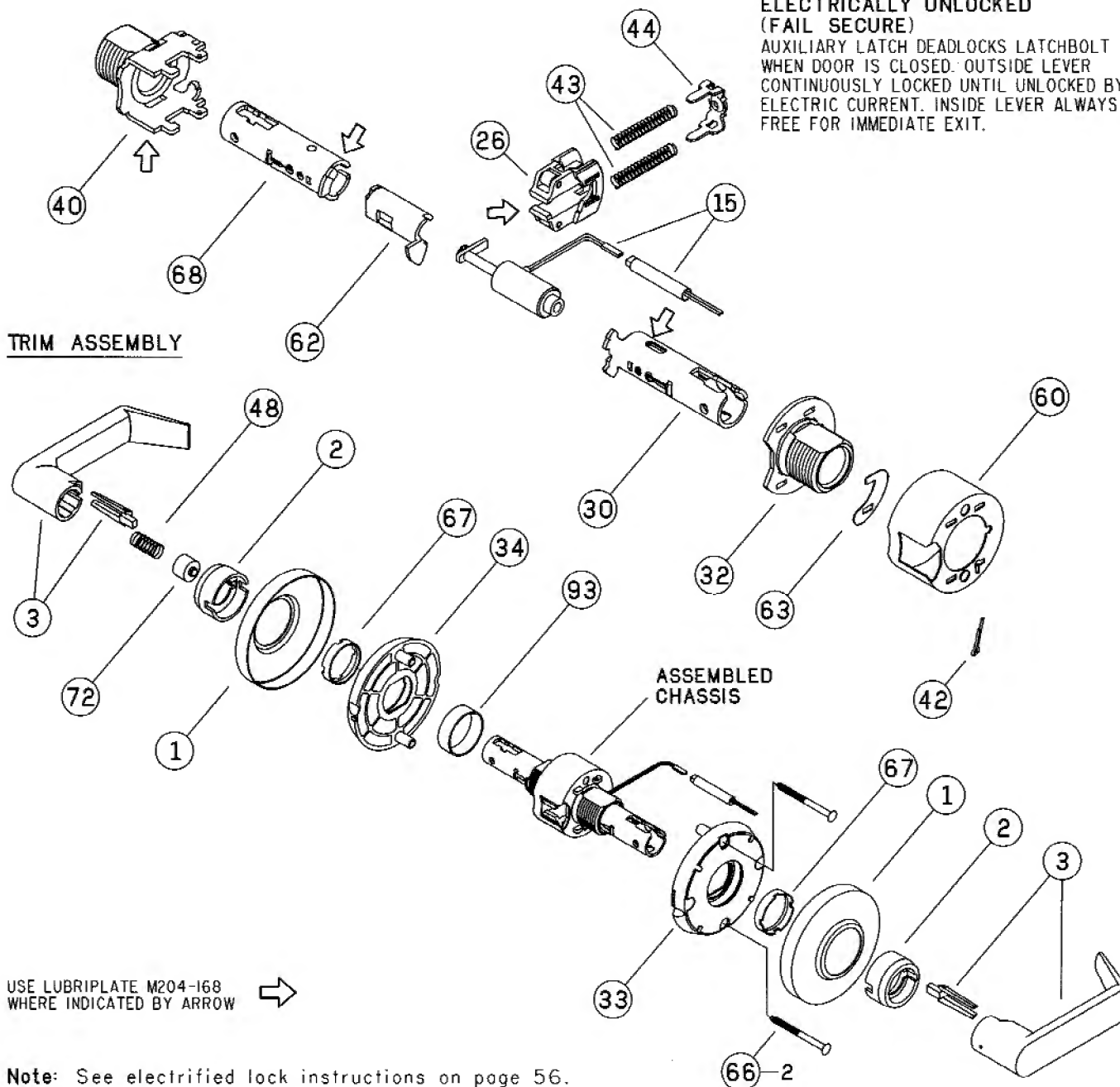
Note: See electrified lock instructions on page 56.

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D25D
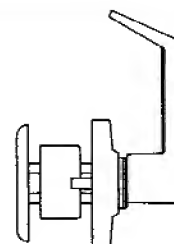
CHASSIS ASSEMBLY

EXIT LOCK
BLANK PLATE OUTSIDE. INSIDE
LEVER ALWAYS UNLOCKED.

TRIM ASSEMBLY

Pin to lower hole
for 2" doors

Pin to upper hole
for 1 5/8" to
1 3/4" doors

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

D40S

CHASSIS ASSEMBLY
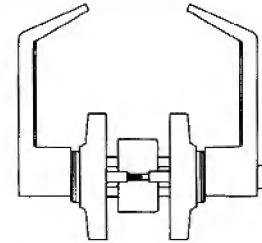
BATH/BEDROOM PRIVACY LOCK
PUSH BUTTON LOCKING. CAN BE OPENED
FROM OUTSIDE WITH SMALL SCREWDRIVER
OR FLAT NARROW TOOL. TURNING INSIDE
LEVER OR CLOSING DOOR RELEASES BUTTON.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-I68
WHERE INDICATED BY ARROW

Note: See page 37 for plunger installation instructions.

8

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D44S

CHASSIS ASSEMBLY

HOSPITAL PRIVACY LOCK
PUSH BUTTON LOCKING. UNLOCKED FROM
OUTSIDE BY TURNING EMERGENCY
TURN-BUTTON. TURNING INSIDE LEVER
OR CLOSING DOOR RELEASES BUTTON.

TRIM ASSEMBLY

**ASSEMBLED
CHASSIS**

USE LUBRIPLATE M204-I68
WHERE INDICATED BY ARROW

Note: See page 37 for plunger installation instructions.

D 50BD

Designed to accept 6 or 7 pin Small
Format Interchangeable Cores manufactured
by Arrow, Best, Falcon and KSP.
FURNISHED LESS CORE.

CHASSIS ASSEMBLY

ENTRANCE/OFFICE LOCK
PUSH BUTTON LOCKING. PUSH BUTTON
LOCKS OUTSIDE LEVER UNTIL UNLOCKED
WITH KEY OR BY TURNING INSIDE LEVER.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

Notes: 1) For Vandlgard version of this function see D91BD.
2) See page 37 for plunger installation instructions.

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D5OPD

CHASSIS ASSEMBLY

ENTRANCE/OFFICE LOCK
PUSH BUTTON LOCKING. PUSH BUTTON
LOCKS OUTSIDE LEVER UNTIL UNLOCKED
WITH KEY OR BY TURNING INSIDE LEVER.

44

73

65

43

20

31

28

10

27

TRIM ASSEMBLY

26

12

2

1

67

34

32

4

93

60

42

**ASSEMBLED
CHASSIS**

67

1

2

4

33

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

66—2

Notes: 1) For Vandlgard version of this function see D9IPD.
2) See page 37 for plunger installation instructions.

D 53BD

Designed to accept 6 or 7 pin Small Format Interchangeable Cores manufactured by Arrow, Best, Falcon and KSP. FURNISHED LESS CORE.

CHASSIS ASSEMBLY

ENTRANCE LOCK
PUSH/TURN BUTTON LOCKING:
PUSHING AND TURNING BUTTON LOCKS OUTSIDE LEVER REQUIRING USE OF KEY UNTIL BUTTON IS MANUALLY UNLOCKED.
PUSH BUTTON LOCKING:
PUSHING BUTTON LOCKS OUTSIDE LEVER UNTIL UNLOCKED BY KEY OR BY TURNING INSIDE LEVER.
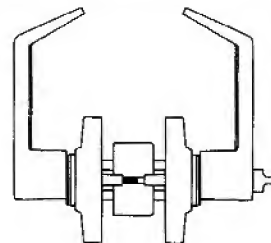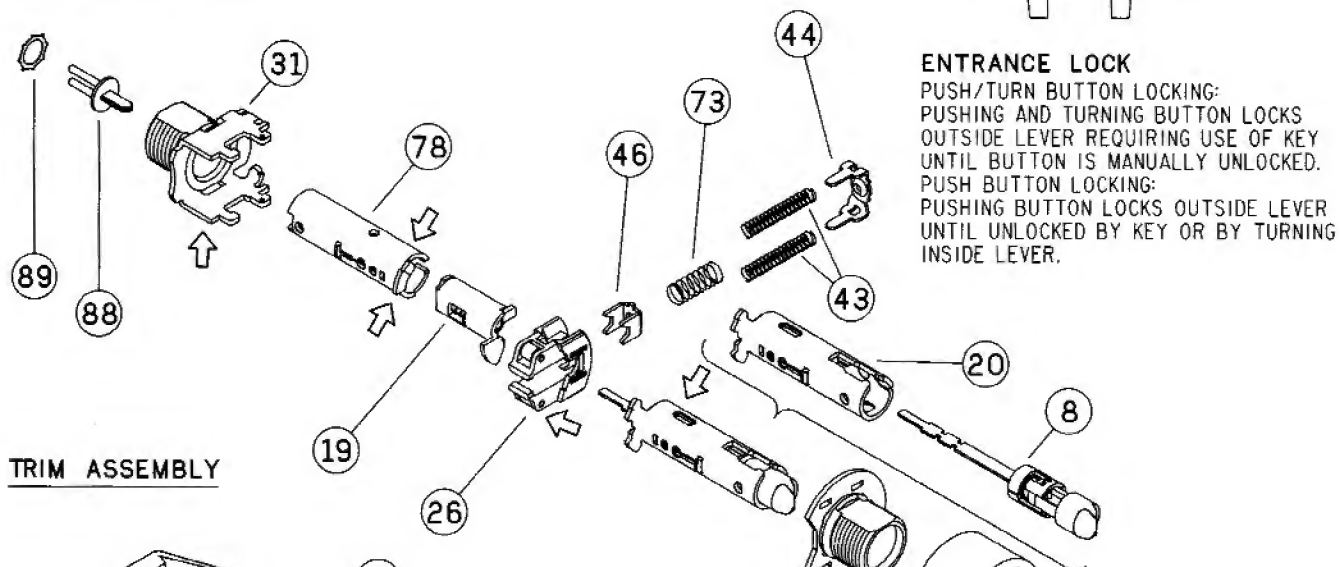
TRIM ASSEMBLY

ASSEMBLED CHASSIS

USE LUBRIPLATE M204-168 ⇨
WHERE INDICATED BY ARROW

Notes: 1) For Vandlgard version of this function see D92BD.
2) See page 37 for plunger installation instructions.

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D53PD

CHASSIS ASSEMBLY
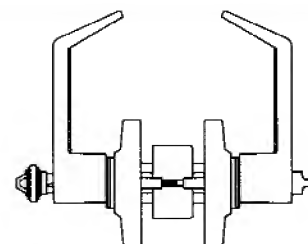
ENTRANCE LOCK
PUSH/TURN BUTTON LOCKING:
PUSHING AND TURNING BUTTON LOCKS
OUTSIDE LEVER REQUIRING USE OF KEY
UNTIL BUTTON IS MANUALLY UNLOCKED.
PUSH BUTTON LOCKING:
PUSHING BUTTON LOCKS OUTSIDE LEVER
UNTIL UNLOCKED BY KEY OR BY TURNING
INSIDE LEVER.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS
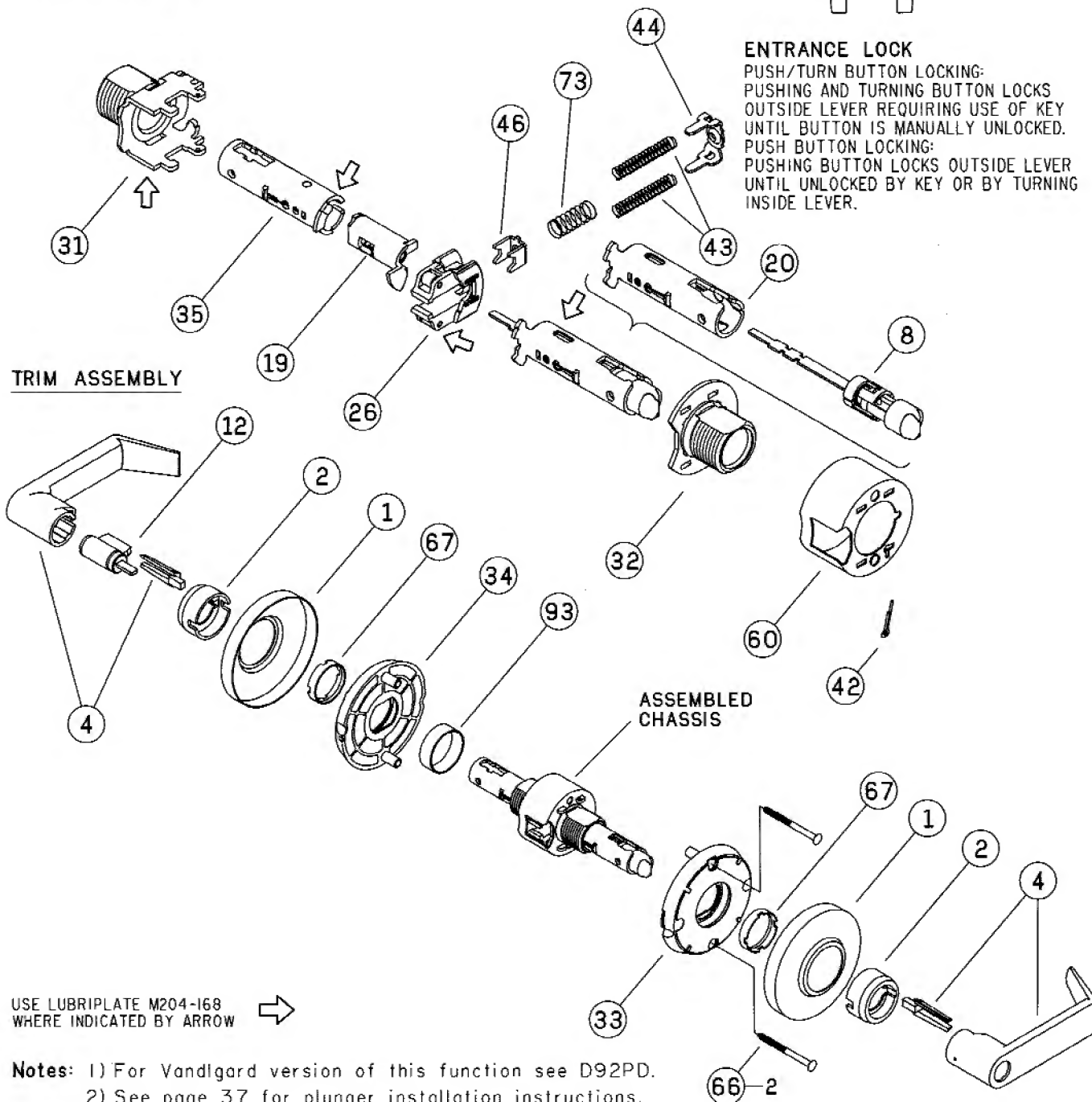
USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW
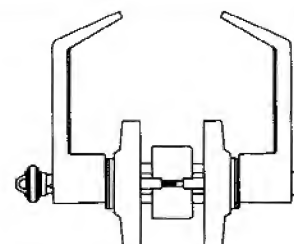
Notes: 1) For Vandlgard version of this function see D92PD.
2) See page 37 for plunger installation instructions.

D60PD

CHASSIS ASSEMBLY
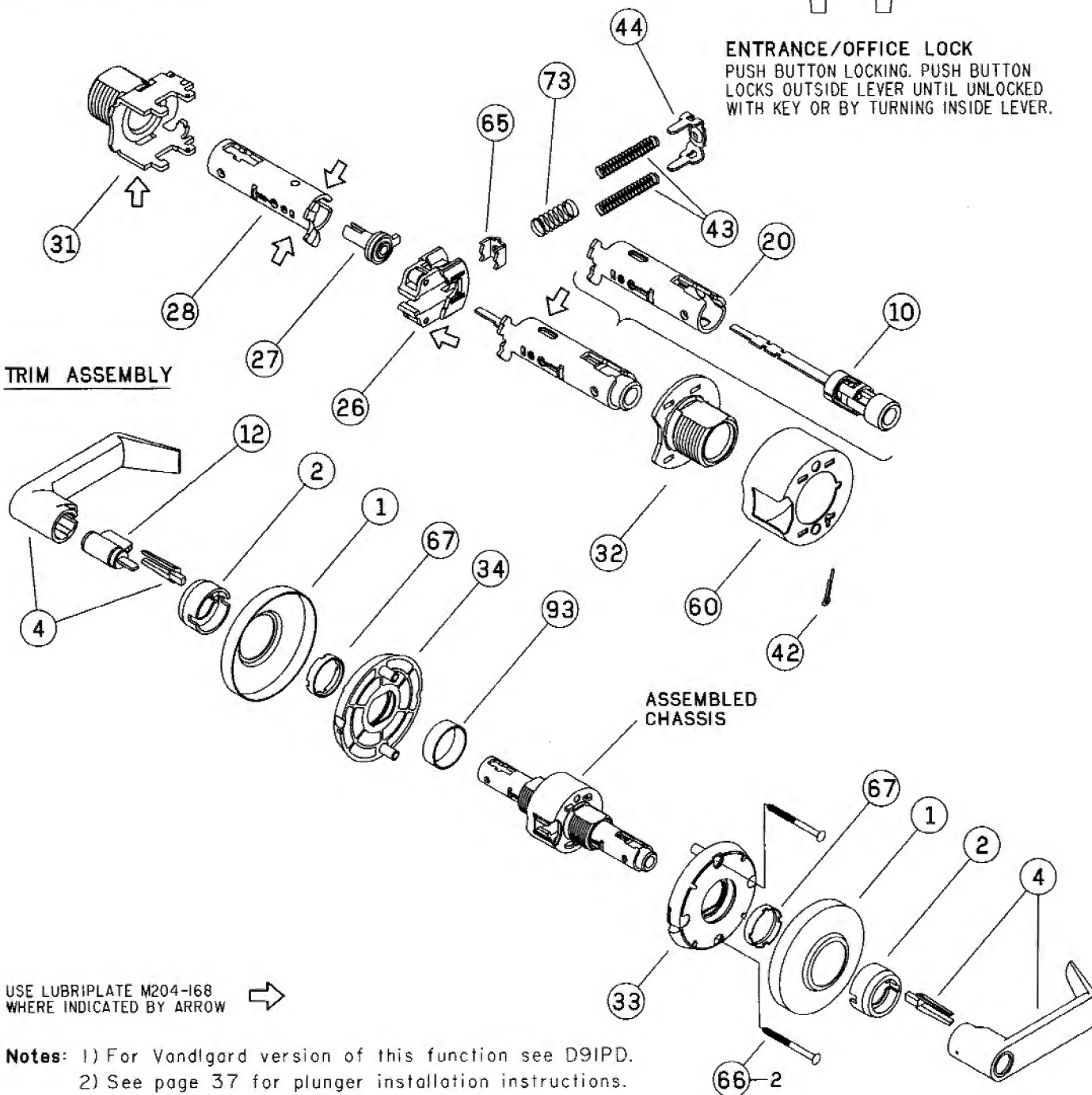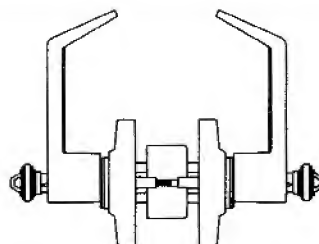
VESTIBULE LOCK
UNLOCKED BY KEY FROM OUTSIDE WHEN
OUTSIDE LEVER IS LOCKED BY KEY IN
INSIDE LEVER. INSIDE LEVER IS
ALWAYS UNLOCKED.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

SCHLAGE.
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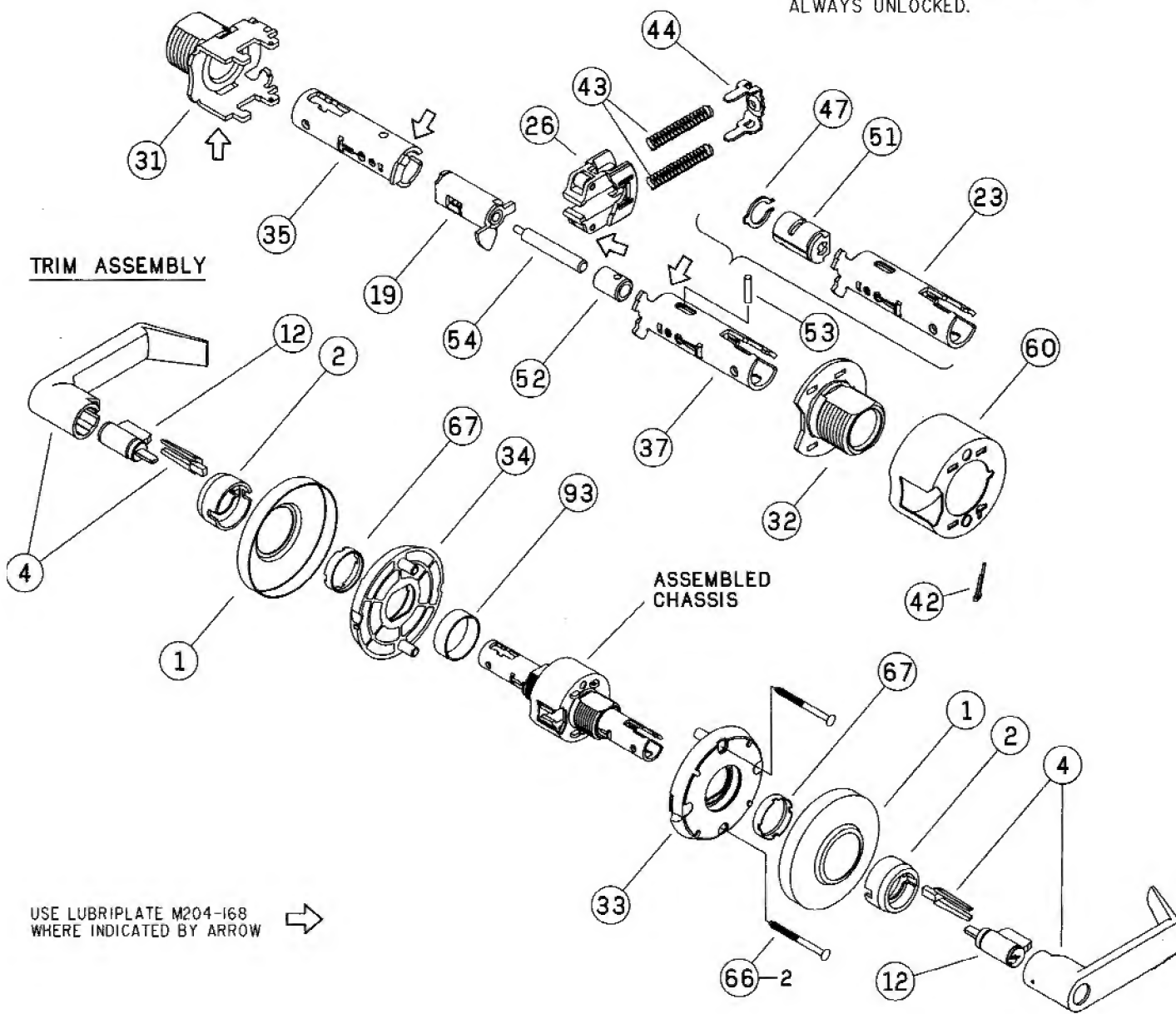
D66PD

CHASSIS ASSEMBLY
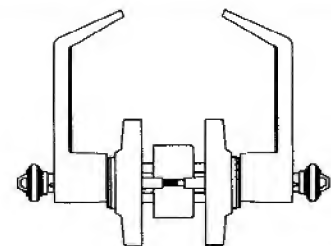
STORE LOCK
KEY IN EITHER LEVER LOCKS OR
UNLOCKS BOTH LEVERS.
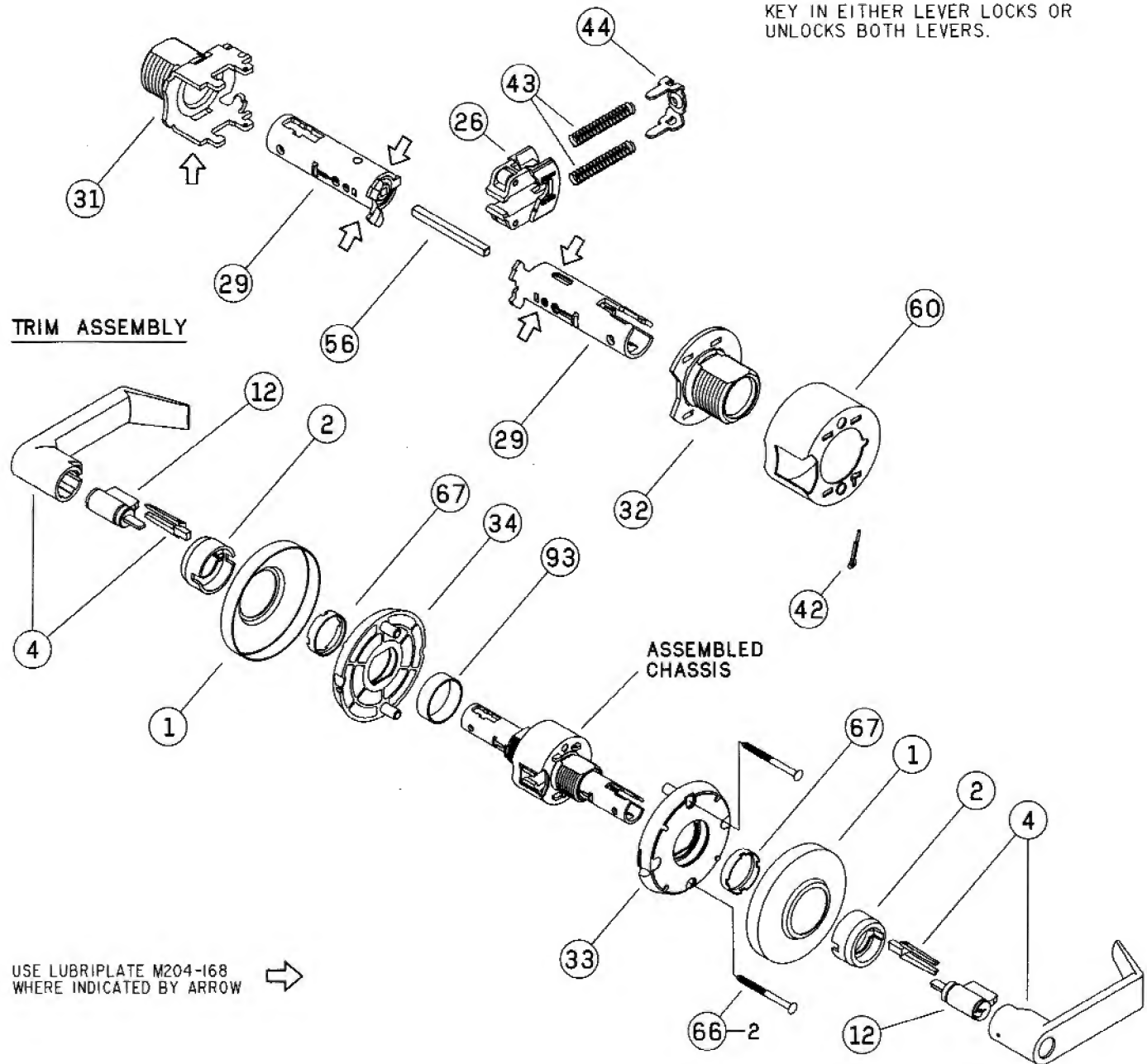
TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

D70BD

Designed to accept 6 or 7 pin Small
Format Interchangeable Cores manufactured
by Arrow, Best, Falcon and KSP.
FURNISHED LESS CORE.

CHASSIS ASSEMBLY

CLASSROOM LOCK
OUTSIDE LEVER LOCKED AND UNLOCKED
BY KEY. INSIDE LEVER ALWAYS UNLOCKED.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

Note: For Vandlgard version of this function see D94BD.

SCHLAGE.
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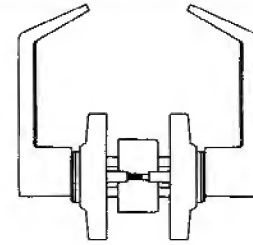
D70PD

CHASSIS ASSEMBLY

CLASSROOM LOCK
OUTSIDE LEVER LOCKED AND UNLOCKED
BY KEY. INSIDE LEVER ALWAYS UNLOCKED.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS
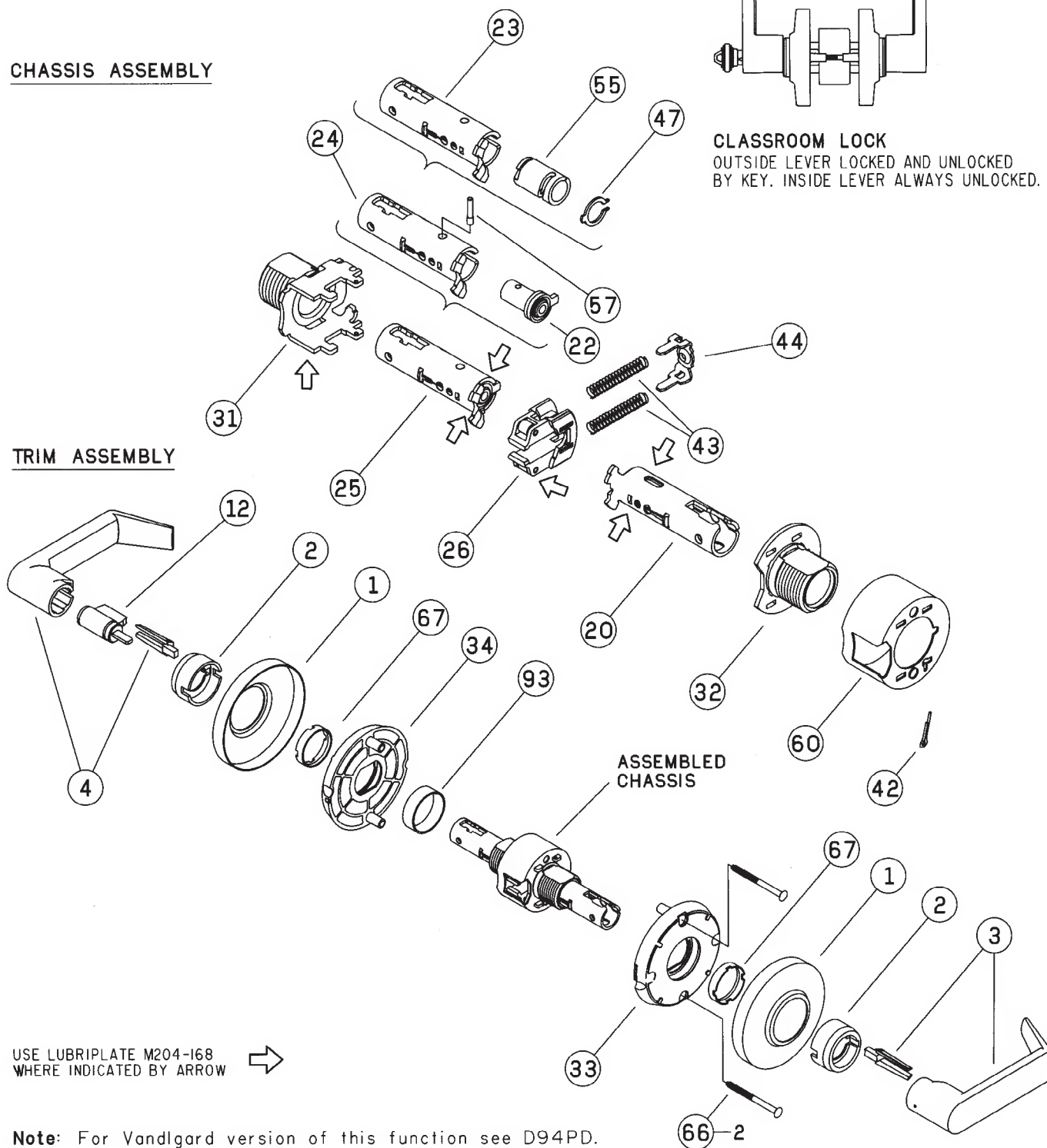
USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

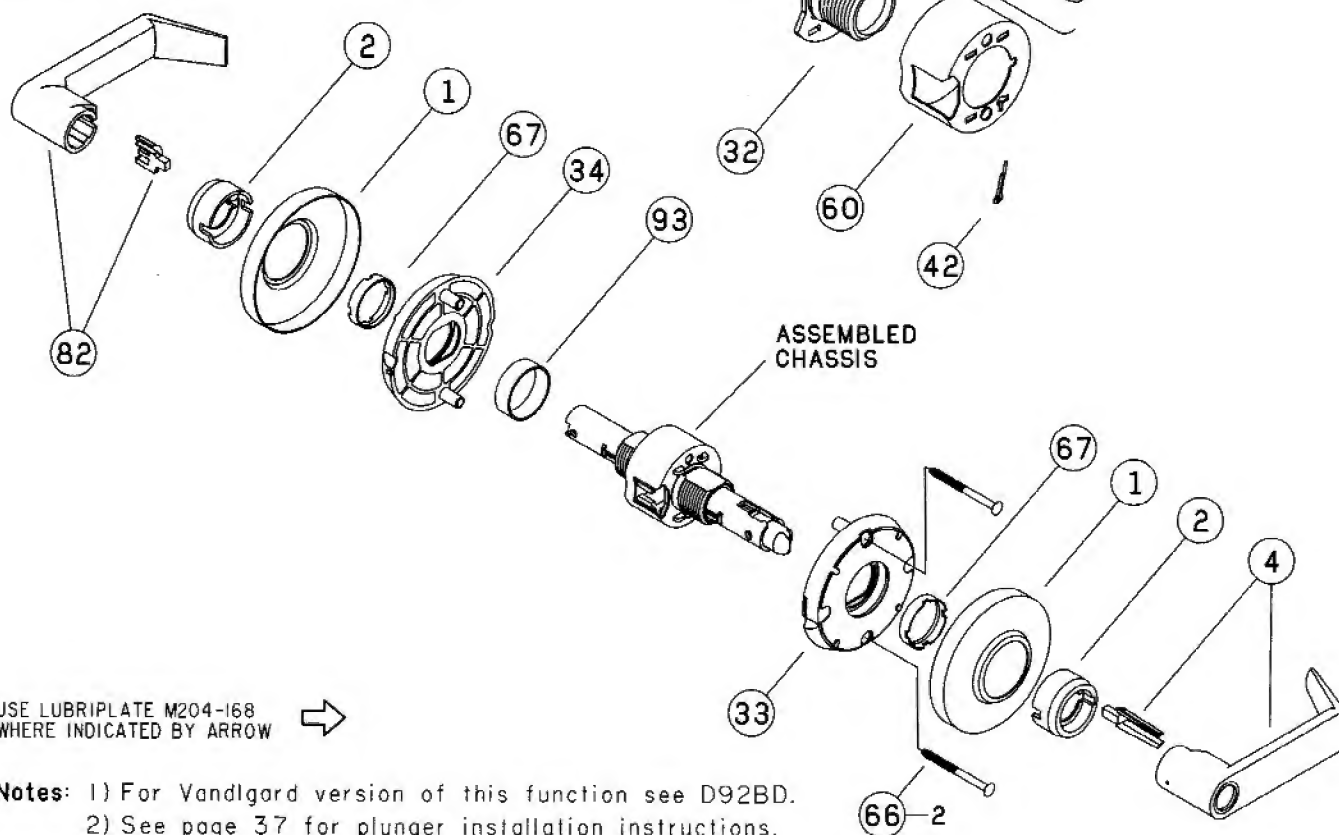**Note**: For Vandlgard version of this function see D94PD.

D73BD

Designed to accept 6 or 7 pin Small
Format Interchangeable Cores manufactured
by Arrow, Best, Falcon and KSP.
FURNISHED LESS CORE.

CHASSIS ASSEMBLY

**CORRIDOR LOCK**
LOCKED OR UNLOCKED BY KEY FROM OUTSIDE.
PUSH BUTTON LOCKING FROM INSIDE. TURNING
INSIDE LEVER OR CLOSING DOOR RELEASES
BUTTON.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

Note: See page 37 for plunger installation instructions.

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D73PD

CHASSIS ASSEMBLY

CORRIDOR LOCK
LOCKED OR UNLOCKED BY KEY FROM OUTSIDE.
PUSH BUTTON LOCKING FROM INSIDE. TURNING
INSIDE LEVER OR CLOSING DOOR RELEASES
BUTTON.

44

73

45

31

35

18

26

43

20

10

TRIM ASSEMBLY

12

2

1

67

34

32

60

4

93

42

**ASSEMBLED
CHASSIS**

67

1

2

4

33

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

66—2

Note: See page 37 for plunger installation instructions.

D80BD

Designed to accept 6 or 7 pin Small
Format Interchangeable Cores manufactured
by Arrow, Best, Falcon and KSP.
FURNISHED LESS CORE.

CHASSIS ASSEMBLY

STOREROOM LOCK
OUTSIDE LEVER FIXED. ENTRANCE BY KEY
ONLY. INSIDE LEVER ALWAYS UNLOCKED.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

Note: For Vandlgard version of this function see D96BD.

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D80PD

CHASSIS ASSEMBLY

STOREROOM LOCK
OUTSIDE LEVER FIXED. ENTRANCE BY KEY
ONLY. INSIDE LEVER ALWAYS UNLOCKED.

TRIM ASSEMBLY

31

35

39

26

12

2

1

67

34

93

44

43

20

32

60

42

ASSEMBLED
CHASSIS

4

67

1

2

3

33

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW ➡

66—2

Note: For Vandlgord version of this function see D96PD.

D80BDEL

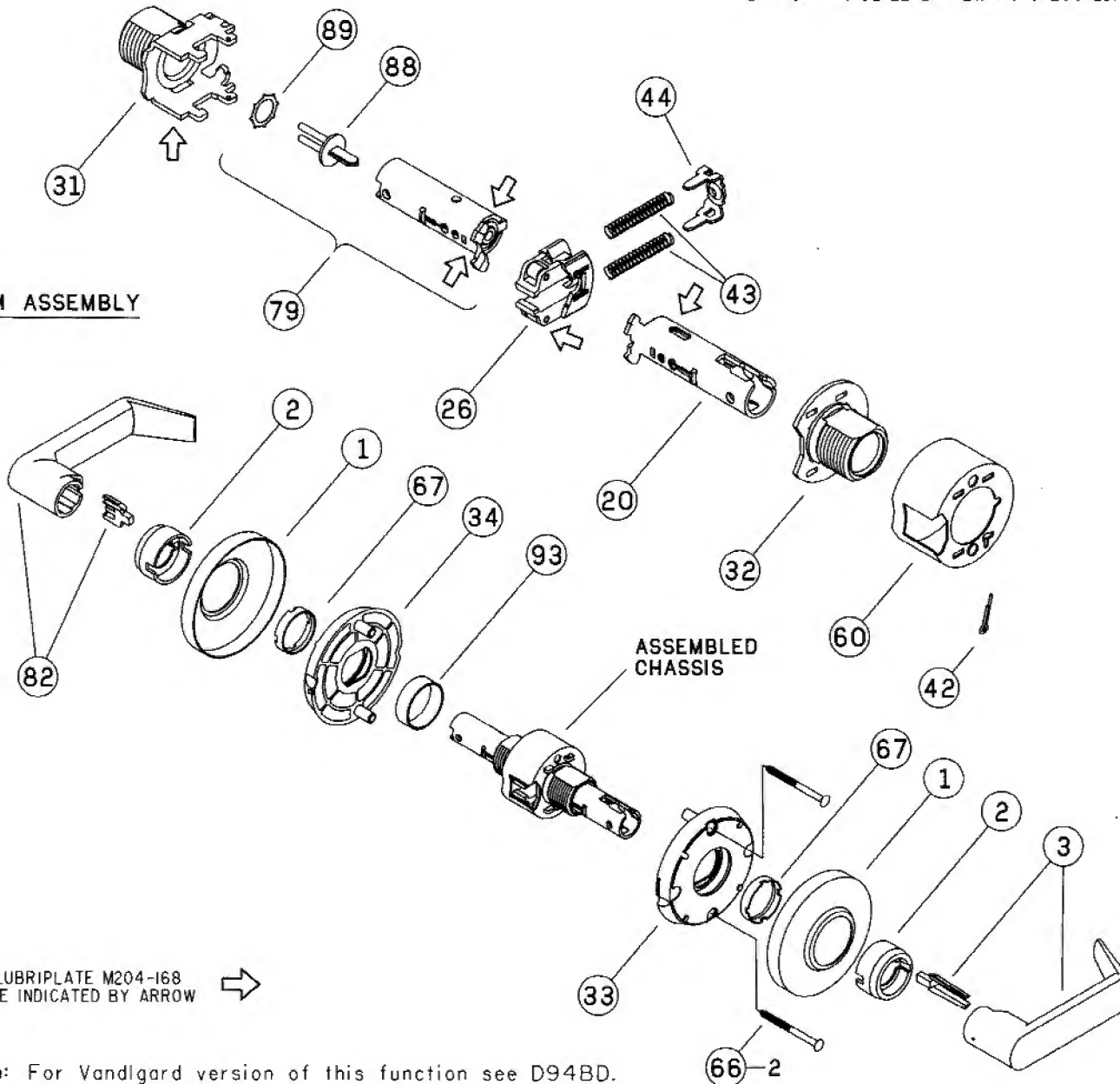Designed to accept 6 or 7 pin Small
Format Interchangeable Cores manufactured
by Arrow, Best, Falcon and KSP.
FURNISHED LESS CORE.

CHASSIS ASSEMBLY

**ELECTRICALLY LOCKED
(FAIL SAFE)**
AUXILIARY LATCH DEADLOCKS LATCHBOLT
WHEN DOOR IS CLOSED. OUTSIDE LEVER
CONTINUOUSLY LOCKED ELECTRICALLY
UNTIL UNLOCKED BY KEY, SWITCH OR
POWER FAILURE. INSIDE LEVER ALWAYS
FREE FOR IMMEDIATE EXIT.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

Note: See electrified lock instructions on page 56.

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D80PDEL

CHASSIS ASSEMBLY
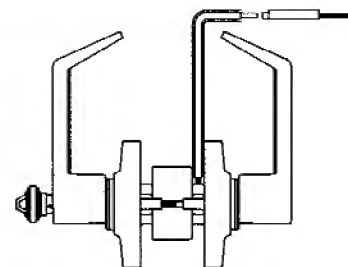
**ELECTRICALLY LOCKED
(FAIL SAFE)**
AUXILIARY LATCH DEADLOCKS LATCHBOLT
WHEN DOOR IS CLOSED. OUTSIDE LEVER
CONTINUOUSLY LOCKED ELECTRICALLY
UNTIL UNLOCKED BY KEY, SWITCH OR
POWER FAILURE. INSIDE LEVER ALWAYS
FREE FOR IMMEDIATE EXIT.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

Note: See electrified lock instructions on page 56.

D80BDEU

Designed to accept 6 or 7 pin Small
Format Interchangeable Cores manufactured
by Arrow, Best, Falcon and KSP.
FURNISHED LESS CORE.

CHASSIS ASSEMBLY

**ELECTRICALLY UNLOCKED
(FAIL SECURE)**
AUXILIARY LATCH DEADLOCKS LATCHBOLT
WHEN DOOR IS CLOSED. OUTSIDE LEVER
CONTINUOUSLY LOCKED UNTIL UNLOCKED
BY KEY OR ELECTRIC CURRENT. INSIDE
LEVER ALWAYS FREE FOR IMMEDIATE EXIT.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

Note: See electrified lock instructions on page 56.

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D80PDEU

CHASSIS ASSEMBLY

ELECTRICALLY UNLOCKED
(FAIL SECURE)
AUXILIARY LATCH DEADLOCKS LATCHBOLT
WHEN DOOR IS CLOSED. OUTSIDE LEVER
CONTINUOUSLY LOCKED UNTIL UNLOCKED
BY KEY OR ELECTRIC CURRENT. INSIDE
LEVER ALWAYS FREE FOR IMMEDIATE EXIT.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-I68
WHERE INDICATED BY ARROW

Note: See electrified lock instructions on page 56.

D82PD

CHASSIS ASSEMBLY
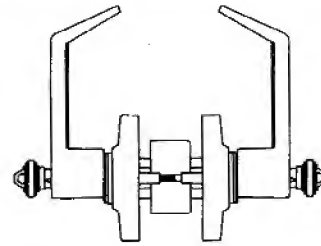
INSTITUTION LOCK
BOTH LEVERS FIXED. ENTRANCE BY
KEY IN EITHER LEVER.

TRIM ASSEMBLY
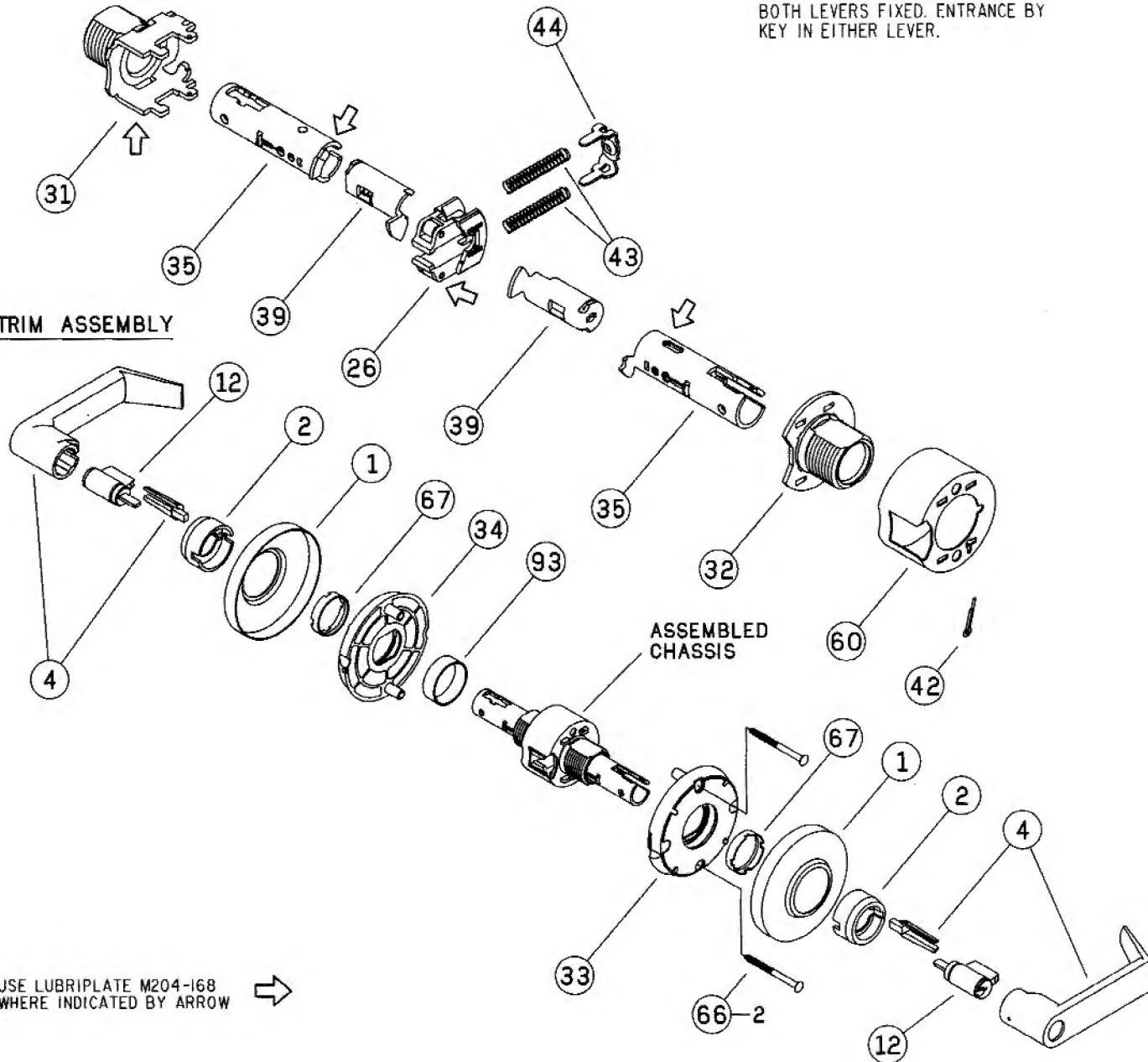
ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

D85PD

CHASSIS ASSEMBLY
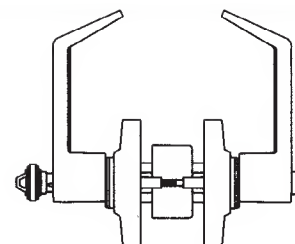
HOTEL/MOTEL LOCK
OUTSIDE LEVER FIXED. ENTRANCE BY KEY ONLY.
PUSH BUTTON IN INSIDE LEVER ACTIVATES
VISUAL OCCUPANCY INDICATOR ALLOWING ONLY
EMERGENCY MASTERKEY TO OPERATE. TURNING
INSIDE LEVER OR CLOSING DOOR RELEASES
VISUAL OCCUPANCY INDICATOR. ROTATION OF
INSIDE SPANNER BUTTON PROVIDES LOCKOUT
FEATURE BY KEEPING INDICATOR THROWN.

TRIM ASSEMBLY
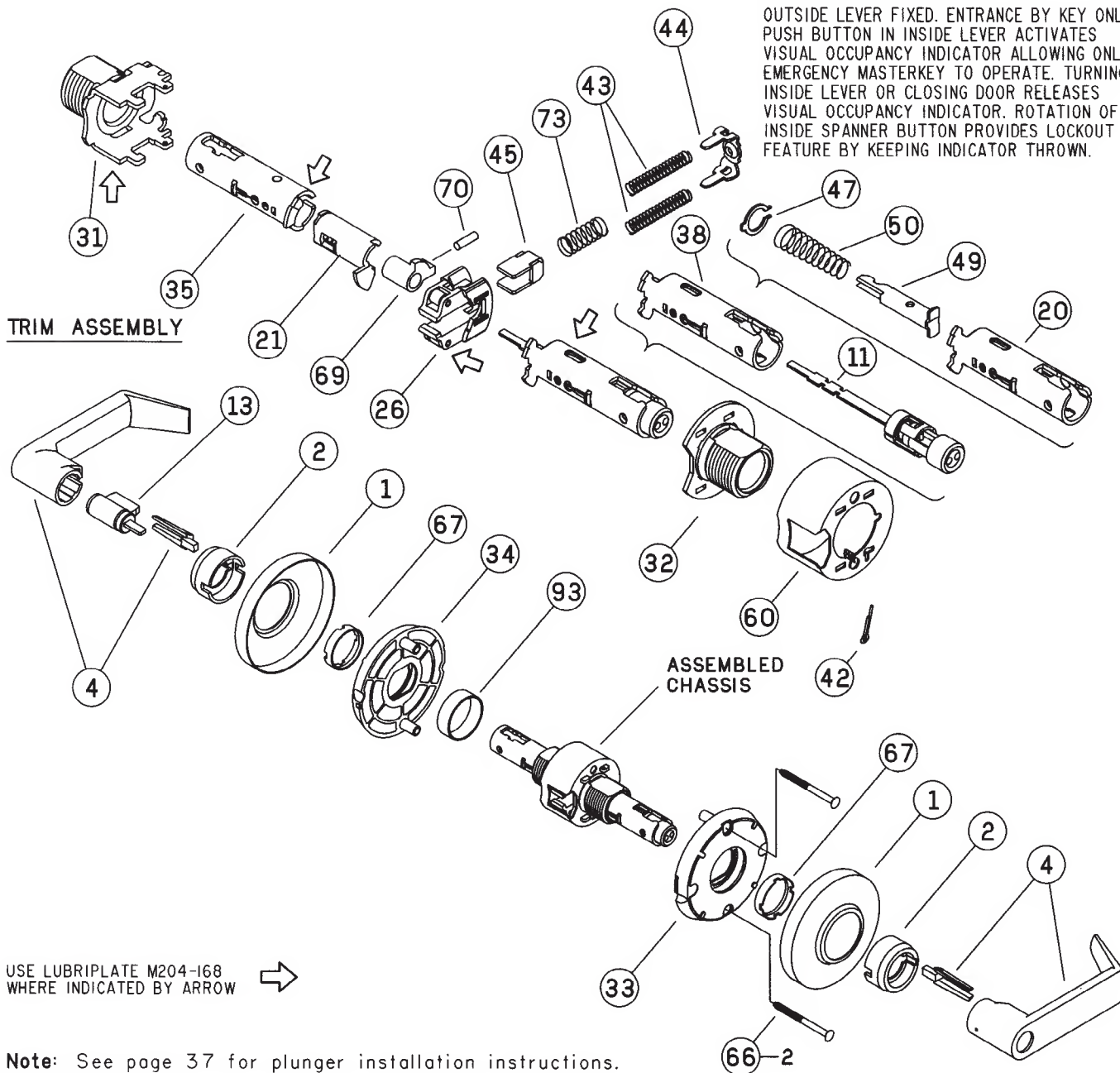
ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

Note: See page 37 for plunger installation instructions.

D91BD VANDLGARD

Designed to accept 6 or 7 pin Small Format Interchangeable Cores manufactured by Arrow, Best, Falcon and KSP. FURNISHED LESS CORE.

ENTRANCE/OFFICE LOCK
PUSH BUTTON LOCKING. PUSH BUTTON DISENGAGES OUTSIDE LEVER UNTIL UNLOCKED WITH KEY OR BY TURNING INSIDE LEVER. VANDLGARD IS DESIGNED TO DISENGAGE OUTSIDE SPINDLE FROM LATCH WHEN IN LOCKED CONDITION.

CHASSIS ASSEMBLY

TRIM ASSEMBLY
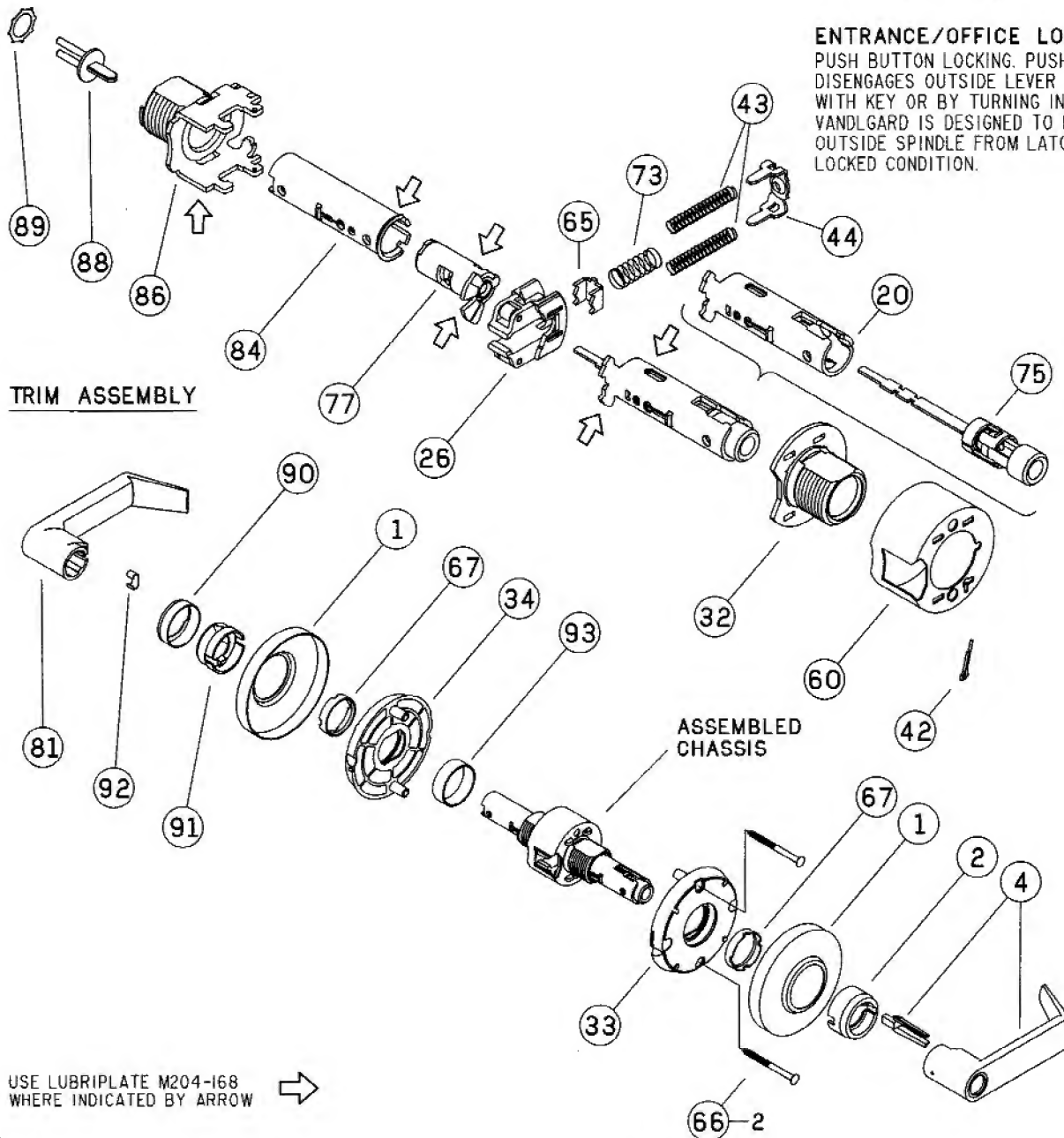
ASSEMBLED CHASSIS

USE LUBRIPLATE M204-I68 WHERE INDICATED BY ARROW

Notes: 1) For non-Vandlgard version of this function see D50BD.
2) See page 37 for plunger installation instructions.

SCHLAGE.
June 1998

D91PD VANDLGARD

CHASSIS ASSEMBLY
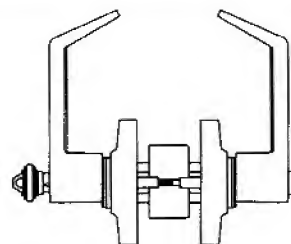
ENTRANCE/OFFICE LOCK
PUSH BUTTON LOCKING. PUSH BUTTON
DISENGAGES OUTSIDE LEVER UNTIL UNLOCKED
WITH KEY OR BY TURNING INSIDE LEVER.
VANDLGARD IS DESIGNED TO DISENGAGE
OUTSIDE SPINDLE FROM LATCH WHEN IN
LOCKED CONDITION.

TRIM ASSEMBLY

**ASSEMBLED
CHASSIS**
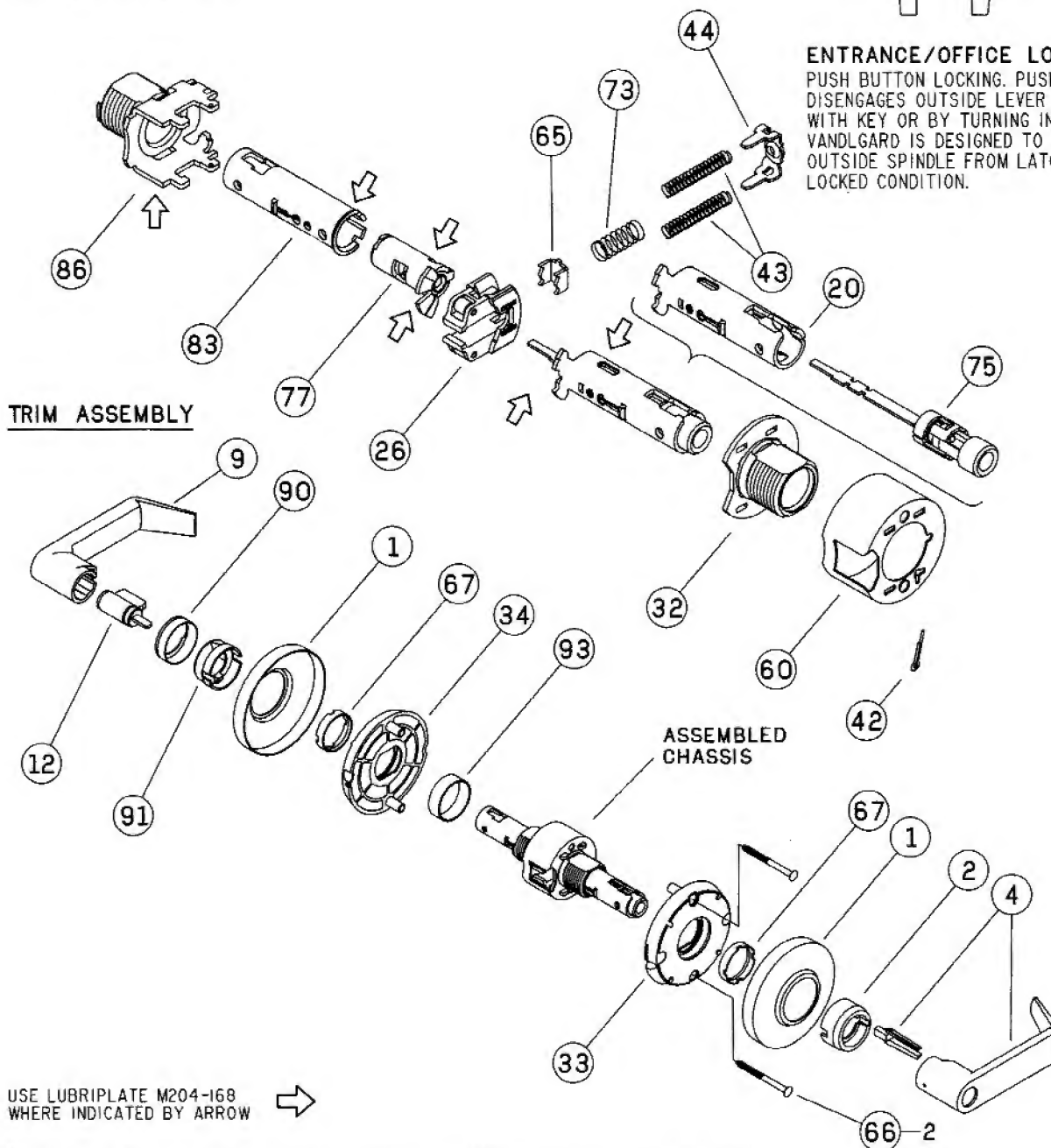
USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW ⇨

Notes: 1) For non-Vandlgard version of this function see D50PD.
2) See page 37 for plunger installation instructions.

D92BD VANDLGARD

Designed to accept 6 or 7 pin Small
Format Interchangeable Cores manufactured
by Arrow, Best, Falcon and KSP.
FURNISHED LESS CORE.

CHASSIS ASSEMBLY
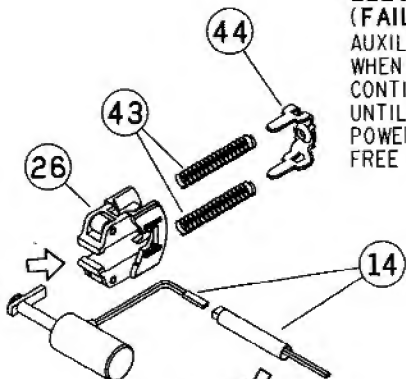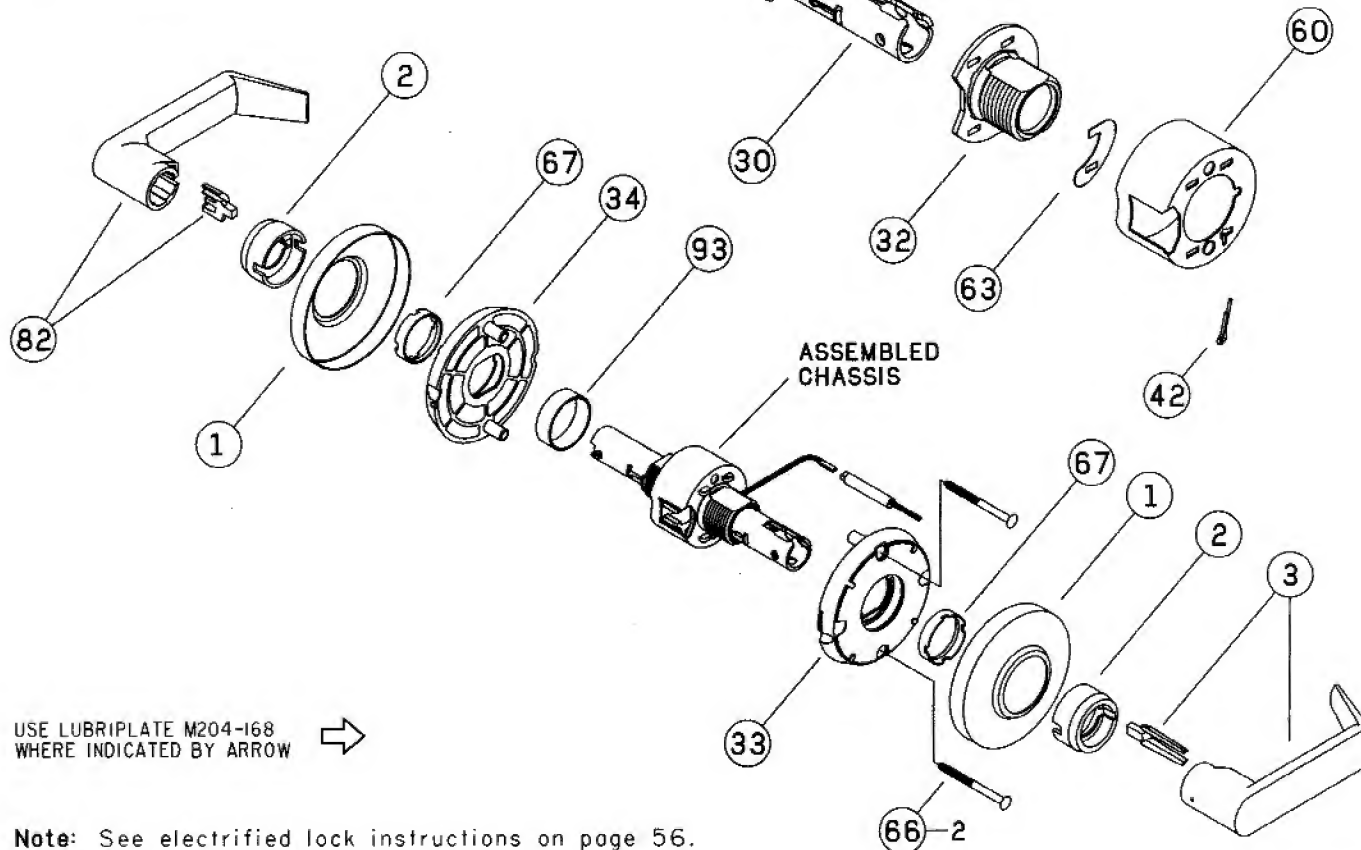
ENTRANCE LOCK
PUSH/TURN BUTTON LOCKING:
PUSHING AND TURNING BUTTON DISENGAGES
OUTSIDE LEVER REQUIRING USE OF KEY
UNTIL BUTTON IS MANUALLY UNLOCKED.
PUSH BUTTON LOCKING:
PUSHING BUTTON DISENGAGES OUTSIDE LEVER
UNTIL UNLOCKED BY KEY OR BY TURNING
INSIDE LEVER. VANDLGARD IS DESIGNED
TO DISENGAGE OUTSIDE SPINDLE FROM
LATCH WHEN IN LOCKED CONDITION.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW
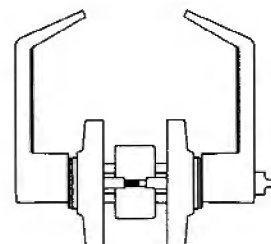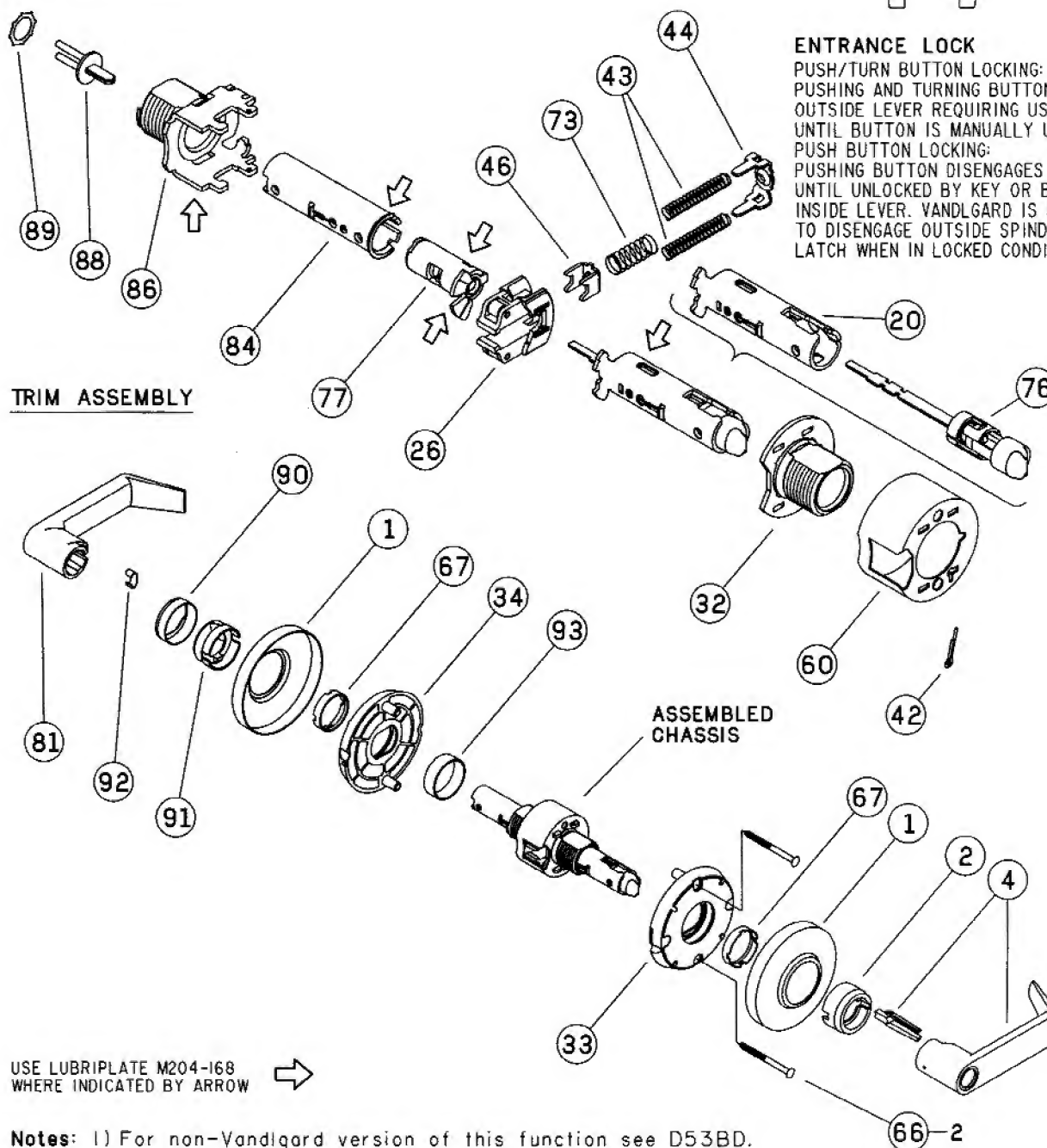
Notes: 1) For non-Vandlgard version of this function see D53BD.
2) See page 37 for plunger installation instructions.

SCHLAGE.
June 1998

D92PD VANDLGARD

CHASSIS ASSEMBLY
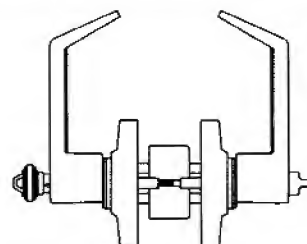
ENTRANCE LOCK
PUSH/TURN BUTTON LOCKING:
PUSHING AND TURNING BUTTON DISENGAGES
OUTSIDE LEVER REQUIRING USE OF KEY
UNTIL BUTTON IS MANUALLY UNLOCKED.
PUSH BUTTON LOCKING:
PUSHING BUTTON DISENGAGES OUTSIDE LEVER
UNTIL UNLOCKED BY KEY OR BY TURNING
INSIDE LEVER. VANDLGARD IS DESIGNED
TO DISENGAGE OUTSIDE SPINDLE FROM
LATCH WHEN IN LOCKED CONDITION.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

Notes: 1) For non-Vandlgard version of this function see D53PD.
2) See page 37 for plunger installation instructions.

SCHLAGE.
June 1998

D94BD VANDLGARD

Designed to accept 6 or 7 pin Small
Format Interchangeable Cores manufactured
by Arrow, Best, Falcon and KSP.
FURNISHED LESS CORE.

CHASSIS ASSEMBLY
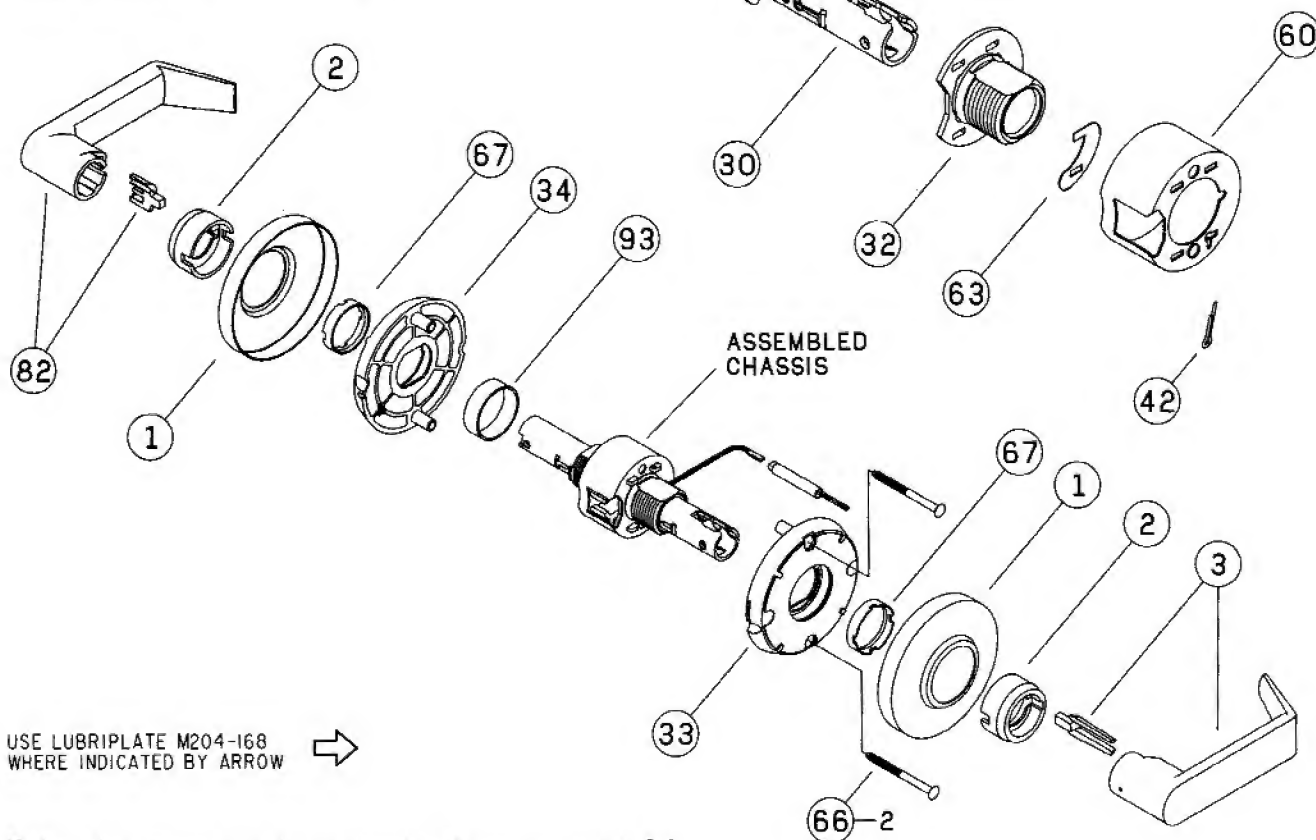
CLASSROOM LOCK
OUTSIDE LEVER DISENGAGED AND UNLOCKED
BY KEY. INSIDE LEVER ALWAYS UNLOCKED.
VANDLGARD IS DESIGNED TO DISENGAGE
OUTSIDE SPINDLE FROM LATCH WHEN IN
LOCKED CONDITION.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

Note: For non-Vandlgard version of this function see D70BD.

SCHLAGE.
June 1998

D94PD VANDLGARD

CHASSIS ASSEMBLY

CLASSROOM LOCK
OUTSIDE LEVER DISENGAGED AND UNLOCKED
BY KEY. INSIDE LEVER ALWAYS UNLOCKED
VANDLGARD IS DESIGNED TO DISENGAGE
OUTSIDE SPINDLE FROM LATCH WHEN IN
LOCKED CONDITION.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW
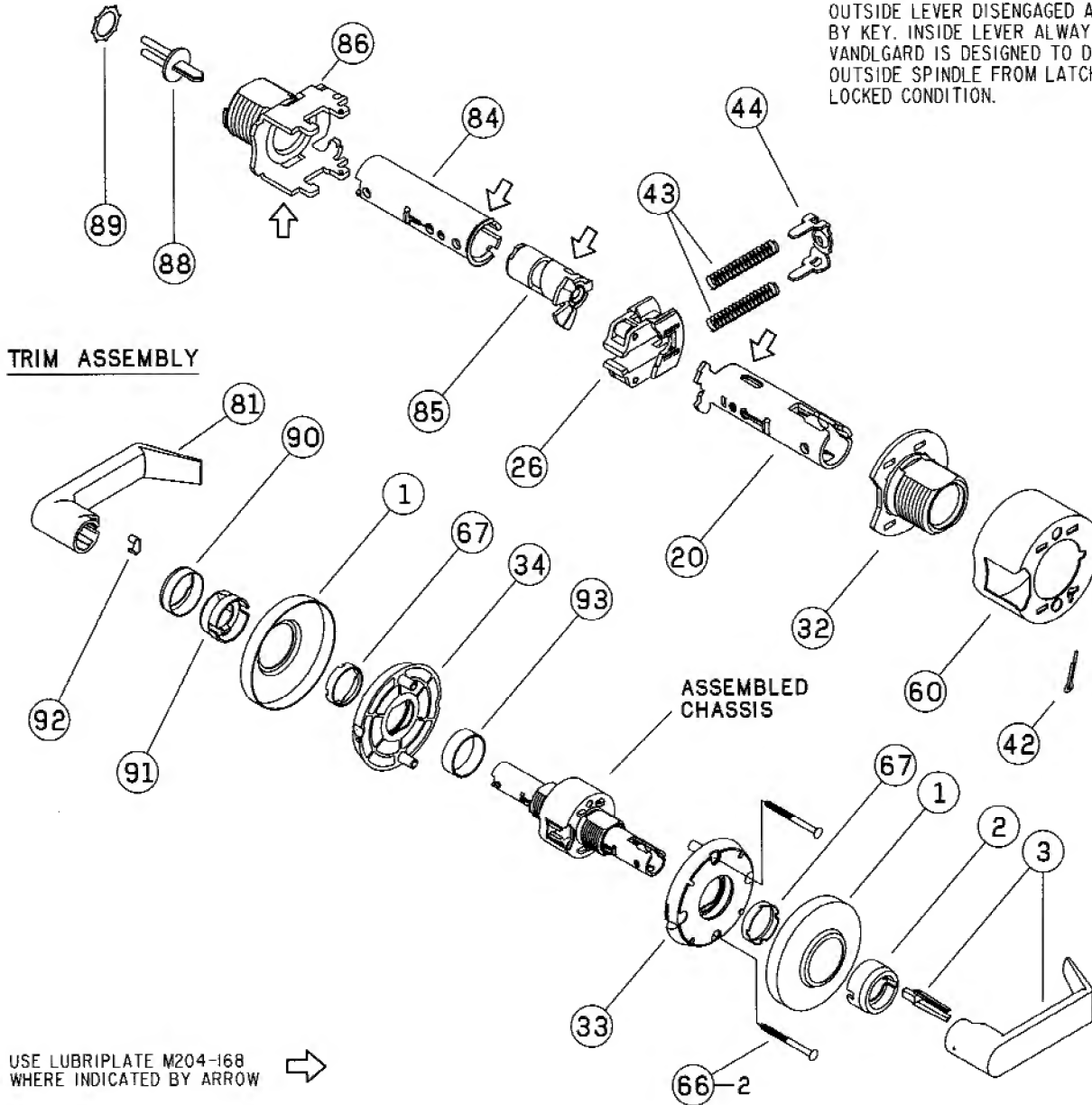
Note: For non-Vandlgard version of this function see D70PD.

D96BD VANDLGARD

Designed to accept 6 or 7 pin Small
Format Interchangeable Cores manufactured
by Arrow, Best, Falcon and KSP.
FURNISHED LESS CORE.

CHASSIS ASSEMBLY

STOREROOM LOCK
OUTSIDE LEVER ALWAYS DISENGAGED.
ENTRANCE BY KEY ONLY. INSIDE LEVER
ALWAYS UNLOCKED. VANDLGARD IS
DESIGNED TO DISENGAGE OUTSIDE SPINDLE
FROM LATCH WHEN IN LOCKED CONDITION.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168
WHERE INDICATED BY ARROW

Note: For non-Vandlgard version of this function see D80BD.

SCHLAGE.
June 1998
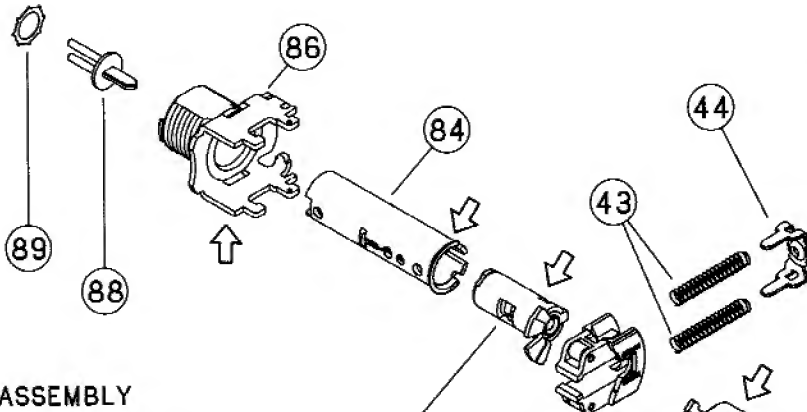
D96PD VANDLGARD

CHASSIS ASSEMBLY

STOREROOM LOCK
OUTSIDE LEVER ALWAYS DISENGAGED.
ENTRANCE BY KEY ONLY. INSIDE LEVER
ALWAYS UNLOCKED. VANDLGARD IS
DESIGNED TO DISENGAGE OUTSIDE SPINDLE
FROM LATCH WHEN IN LOCKED CONDITION.

TRIM ASSEMBLY

ASSEMBLED
CHASSIS

USE LUBRIPLATE M204-168 ⇨
WHERE INDICATED BY ARROW

Note: For non-Vandlgard version of this function see D80PD.

SCHLAGE.
June 1998

D170

SINGLE DUMMY TRIM
DUMMY TRIM FOR ONE SIDE OF DOOR.
USED FOR DOOR PULL OR AS MATCHING
INACTIVE TRIM.

TRIM ASSEMBLY
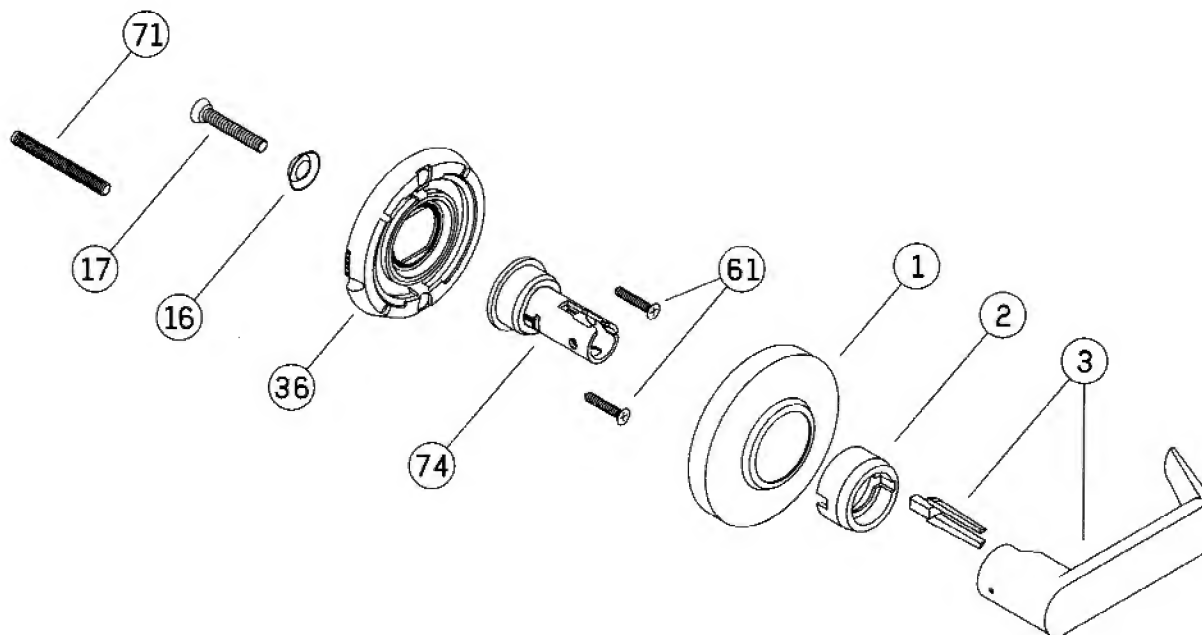
Notes: 1) Use threaded rod (71) when back to back mounting is required.
2) Door thickness for this function is 1 3/8" to 2".

SCHLAGE.
June 1998

PLUNGER INSTALLATION INSTRUCTIONS

To install plunger unit, insert into spindle and rotate it so tab on sleeve can be pried up as shown.
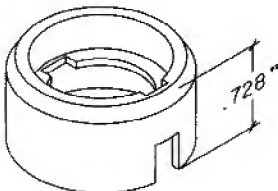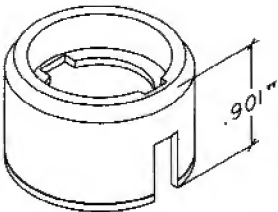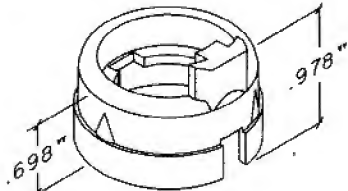
Caution: To allow lever engagement, do not pry up tab beyond outside of spindle.
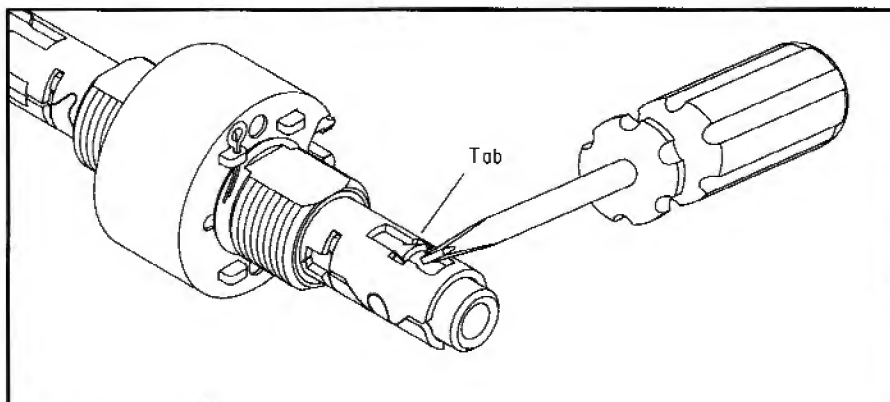
Plunger unit parts are assembled as shown.

Sleeve
Spring
Spring Seat
Tab
Lug
Plunger and Button
Tab
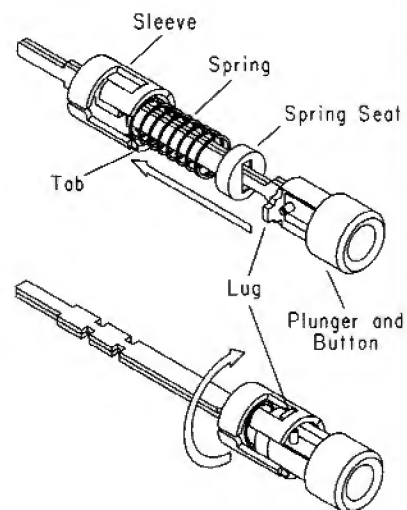
DRIVER COMPARISON CHART

Non-Vandlgard Functions, Both Sides, 1 5/8" - 2" Doors (Standard) Vandlgard Functions, Inside, 1 5/8" - 1 7/8" Doors (Standard)	Non-Vandlgard Functions, Both Sides 1 3/8" Doors	Vandlgard Functions, Outside 1 5/8" - 1 7/8" Doors (Standard)
		C607-011 Driver Cap Material: Brass or Bronze (Specify finish) .437"
C604-319 Driver Material: Brass or Bronze (Specify finish) .728"	**C604-396 Extended Driver** Material: Brass or Bronze (Specify finish) .901"	**C607-012 Driver** Material: Stainless Steel .978" .698"

38-075 SPRING CAGE RETROFIT KIT

Order the 38-075 Spring Cage Retrofit Kit, contents shown below, when replacing Old-Style Spring Cages used in locks manufactured before October 1994.

When Replacing. These Old Style Parts...
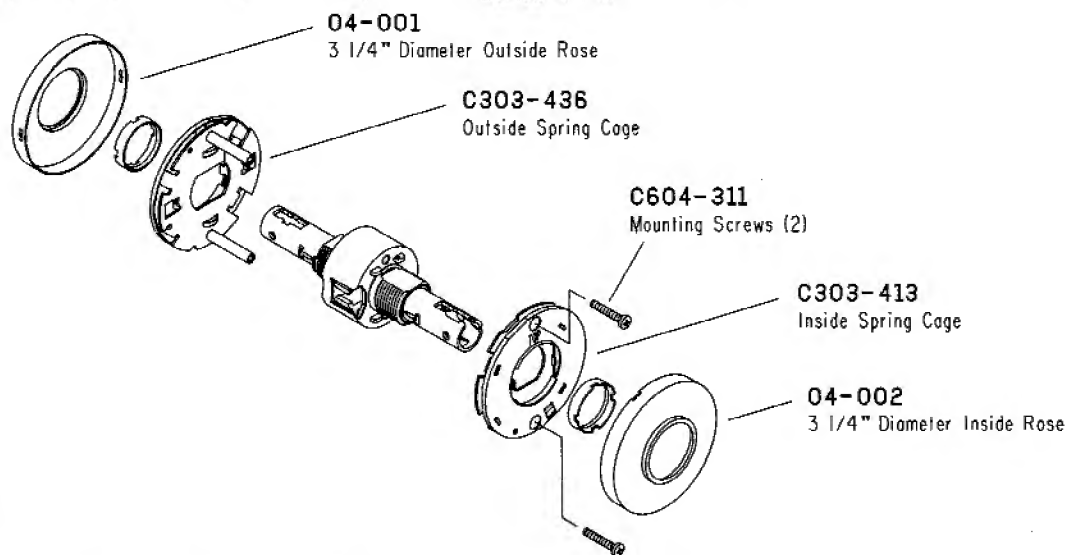
04-001
3 1/4" Diameter Outside Rose

C303-436
Outside Spring Cage

C604-311
Mounting Screws (2)

C303-413
Inside Spring Cage

04-002
3 1/4" Diameter Inside Rose

Order The 38-075 Spring Cage Retrofit Kit:

(1) 3 7/16" Diameter Rose

(34) Outside Spring Cage

(66) Mounting Screws (2)

(33) Inside Spring Cage

(1) 3 7/16" Diameter Rose
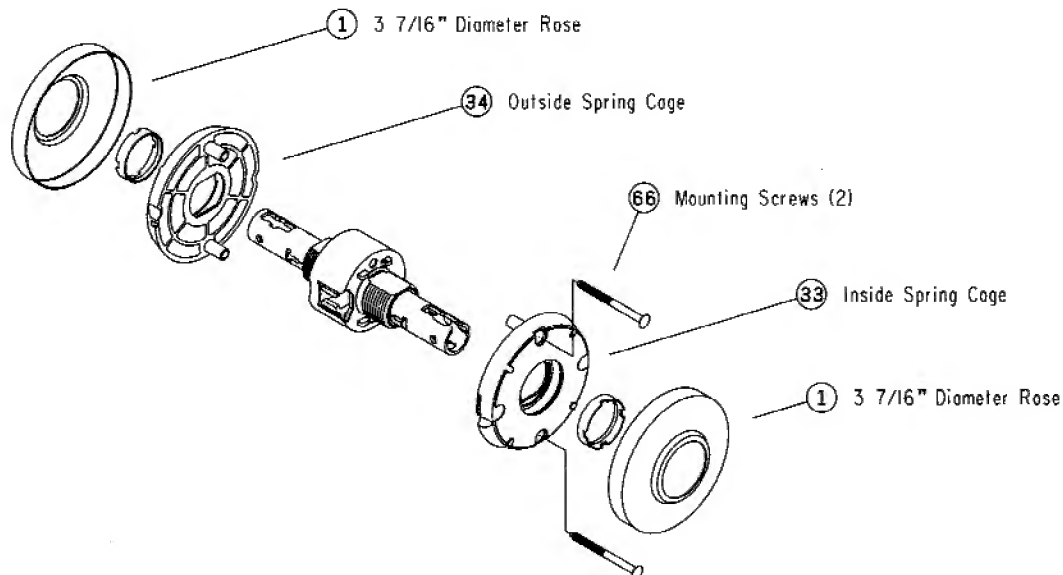
Note: Old-Style parts are discontinued and not available.

	SYMBOL NUMBER	DESCRIPTION	D10S	D12D	D12DEL	D12DEU	D25D	D40S	D44S	D50BD	D50PD	D53BD	D53PD	D60PD	D6…
①	04-060 *	OUTSIDE & INSIDE ROSE	2	2	2	2	●	2	2	2	2	2	2	2	2
②	C604-319	DRIVER, 1 5/8" TO 2" DOORS	2	2	2	2	●	2	2	2	2	2	2	2	2
	C604-396	DRIVER, 1 3/8" DOORS	2	2	2	2	●	2	2	2	2	2	2	2	2
③	04-006	CLOSED LEVER & INSERT	2	2	2	2	●								
④	04-007 **	OPEN LEVER & INSERT						2	2	●	2	●	2	2	2
⑤	04-020	INSIDE PLUNGER UNIT					●	●							
⑥	04-021	OUTSIDE PLUNGER UNIT					●								
⑦	04-022	OUTSIDE PLUNGER UNIT						●							
⑧	04-023	PLUNGER										●	●		
⑨	04-047 **	OPEN LEVER													
⑩	04-025	INSIDE PLUNGER UNIT								●	●				
⑪	04-026	INSIDE PLUNGER UNIT													
⑫	23-013	CYLINDER									●		●	2	2
⑬	23-014	CYLINDER													
⑭	38-064	SOLENOID & RECTIFIER, EL			●										
⑮	38-065	SOLENOID & RECTIFIER, EU				●									
⑯	A501-171	WASHER													
⑰	A501-746	SCREW													
⑱	C102-837	CAM & PLUG													
⑲	C102-840	CAM & PLUG						●	●			●	●	●	
⑳	C203-034	SPINDLE & CATCH	2	●			●	●	●	●	●	●	●		
㉑	C203-411	SPINDLE & SPRING													
㉒	C203-733	LOCKING PLUG													
㉓	C203-791	SPINDLE & CATCH												●	
㉔	C203-976	SPINDLE & CAM													
㉕	C203-988	SPINDLE & PLUG													
㉖	C303-006	SLIDE & ROLLERS	●	●	●	●	●	●	●	●	●	●	●	●	●
㉗	C303-047	PLUG								●	●				
㉘	C303-049	SPINDLE & RETURN										●			
㉙	C303-405	SPINDLE & PLUG													2
㉚	C303-407	SPINDLE & CATCH			●	●									
㉛	C303-410	OUTSIDE HUB & FRAME	●	●			●	●	●	●	●	●	●	●	●

 * See page 38A if replacing parts from locks manufactured before October 1994.
 ** 04-007 = 04-047 + C604-330 Insert (see page 44).

D60PD	D66PD	D70BD	D70PD	D73BD	D73PD	D80BD	D80PD	D80BDEL	D80PDEL	D80BDEU	D80PDEU	D82PD	D85PD	D91BD	D91PD	D92BD	D92PD	D94BD	D94PD	D96BD	D96PD	D170
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	●
2	2	2	2	2	2	2	2	2	2	2	2	2	●	●	●	●	●	●	●	●	●	●
2	2	2	2	2	2	2	2	2	2	2	2	2										
	●		●		●	●	●	●	●	●								●	●	●	●	●
2		●	●	2		●			●		●	2	2	●	●	●	●					
													●			●		●		●		
			●	●																		
												●										
2		●			●	●		●		●		2		●		●		●		●		
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	●	●	●	●	●	●						●	●	●	●	●	●	●	●	●		
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●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2																						
							●	●		●	●											
●	●	●	●	●	●	●						●	●									

Symbol Number		Description	D10S	D12D	D12DEL	D12DEU	D25D	D40S	D44S	D50BD	D50PD	D53BD	D53PD	D60PD	D66PD
㉜	C303-411	INSIDE HUB & FLANGE	●	●	●	●	●	●	●	●	●	●	●	●	●
㉝	C303-035 *	INSIDE SPRING CAGE	●	●	●	●	●	●	●	●	●	●	●	●	●
㉞	C303-036 *	OUTSIDE SPRING CAGE	●	●	●	●		●	●	●	●	●	●	●	●
㉟	C303-418	SPINDLE & CATCH											●	●	
㊱	C604-400	HOUSING													
㊲	C303-424	SPINDLE & CAM												●	·
㊳	C303-427	SPINDLE & HAMMER													
㊴	C303-430	CAM & PLUG		●											
㊵	C303-432	HUB & FRAME			●	●									
㊶	C303-434	HUB & FRAME					●								
㊷	C503-008	COTTER PIN	●	●	●	●	●	●	●	●	●	●	●	●	●
㊸	C503-019	SLIDE SPRING	2	2	2	2	2	2	2	2	2	2	2	2	2
㊹	C503-314	SPRING SEAT	●	●	●	●	●	●	●	●	●	●	●	●	●
㊺	C604-187	SLIDE CATCH						●	●						
㊻	C604-188	SLIDE CATCH										●	●		
㊼	C503-324	SPINDLE WASHER												●	
㊽	C503-331	STOP SPRING		●	●	●									
㊾	C503-334	HAMMER													
㊿	C503-335	HAMMER SPRING													
�51	C503-359	KEY CAM												●	
�52	C503-360	CAM RIDER												●	
�53	C503-361	PIN												●	
�54	C503-362	PLUNGER												●	
�55	C503-368	KEY CAM													
�56	C503-371	PLUNGER													●
�57	C503-400	PIN													
�58	C604-402	OUTSIDE ROSE					●								
�59	C503-965	PLUNGER SLEEVE						●	●						
�60	C603-500	HOUSING	●	●	●	●	●	●	●	●	●	●	●	●	●
�61	L583-133	SCREW													
�62	C604-204	SPINDLE			●	●									

* See page 38A if replacing parts from locks manufactured before October 1994.

D66PD	D70BD	D70PD	D73BD	D73PD	D80BD	D80PD	D80BDEL	D80PDEL	D80BDEU	D80PDEU	D82PD	D85PD	D91BD	D91PD	D92BD	D92PD	D94BD	D94PD	D96BD	D96PD	D170
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
			●			●		●		●	2	●									
																					●
											●										
				●	●						2										
						●	●	●	●												
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
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	●																				
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
																					2
						●	●	●	●												

SYMBOL NUMBER		DESCRIPTION	D10S	D12D	D12DEL	D12DEU	D25D	D40S	D44S	D50BD	D50PD	D53BD	D53PD	D6-
63	C604-205	SOLENOID RETAINING CLIP			●	●								
64	C604-273	PIN					●							
65	C604-190	SLIDE CATCH								●	●			
66	C604-395*	MOUNTING SCREW	2	2	2	2		2	2	2	2	2	2	2
67	C604-354	CASTLE NUT	2	2	2	2	●	2	2	2	2	2	2	2
68	C203-947	SPINDLE & CATCH		●	●	●	●	●						
69	C604-341	LOCKING PLUG												
70	C604-347	PIN												
71	A501-167	THREADED ROD												
72	C604-203	STOP	●	●	●									
73	C604-191**	SLIDE CATCH SPRING						●	●	●	●	●	●	
74	C303-020	SPINDLE & HUB												
75	04-091	INSIDE PLUNGER UNIT												
76	04-092	INSIDE PLUNGER UNIT												
77	C207-001	CAM & PLUG												
78	C303-448	SPINDLE & CATCH										●		
79	C303-451	SPINDLE & PLUG												
80	C303-452	SPINDLE & RETURN								●				
81	C303-459***	SFIC LEVER												
82	C303-460***	SFIC LEVER & INSERT								●		●		
83	C307-001	SPINDLE & CATCH												
84	C307-002	SPINDLE & CATCH												
85	C307-004	CAM & PLUG												
86	C307-005	HUB & FRAME												
87	C307-008	KEY SPINDLE												
88	C604-381	SFIC DRIVER								●		●		
89	C604-383	SFIC RETAINER								●		●		
90	C607-011	DRIVER CAP												
91	C607-012	OUTSIDE DRIVER												
92	C607-014	LEVER INSERT												
93	C607-020	1 3/4" DOOR SPACER	●	●	●	●		●	●	●	●	●	●	●

* See page 38A if replacing parts from locks manufactured before October 1994.

** See page 41 if replacing cone shaped slide catch springs from locks manufactured before May 1993.

*** C303-460 = C303-459 + C604-380 Insert (see page 44).

...UPD	D66PD	D70BD	D70PD	D73BD	D73PD	D80BD	D80PD	D80BDEL	D80PDEL	D80BDEU	D80PDEU	D82PD	D85PD	D91BD	D91PD	D92BD	D92PD	D94BD	D94PD	D96BD	D96PD	D170
							●	●	●	●												
													●	●								
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
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													●		●		●		●			
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SLIDE CATCH SPRING REPLACEMENT PARTS

Order replacement parts shown below when replacing Old-Style G505-747
Slide Catch Springs used in locks manufactured before May 1993.

G505-747
Old-Style Slide
Catch Spring

Function	Replacement Parts	When Replacing These Old-Style Parts...		
D40 D44 D73 D85	C604-191 Slide Catch Spring / C604-187 Slide Catch / C303-006 Slide & Rollers	C303-009 Slide & Rollers	C503-315 Slide Catch	G505-747 Slide Catch Spring
		Order These Replacement Parts:		
		C303-006 Slide & Rollers		
		C604-187 Slide Catch	C604-187 Slide Catch	C604-187 Slide Catch
		C604-191 Slide Catch Spring	C604-191 Slide Catch Spring	C604-191 Slide Catch Spring

Function	Replacement Parts	When Replacing These Old-Style Parts...		
D50	C604-191 Slide Catch Spring / C604-190 Slide Catch / C303-006 Slide & Rollers	C303-009 Slide & Rollers	C604-256 Slide Catch	G505-747 Slide Catch Spring
		Order These Replacement Parts:		
		C303-006 Slide & Rollers	C303-006 Slide & Rollers	C303-006 Slide & Rollers
		C604-190 Slide Catch	C604-190 Slide Catch	C604-190 Slide Catch
		C604-191 Slide Catch Spring	C604-191 Slide Catch Spring	C604-191 Slide Catch Spring

Function	Replacement Parts	When Replacing These Old-Style Parts...		
D53	C604-191 Slide Catch Spring / C604-188 Slide Catch / C303-006 Slide & Rollers	C303-009 Slide & Rollers	C503-316 Slide Catch	G505-747 Slide Catch Spring
		Order These Replacement Parts:		
		C303-006 Slide & Rollers	C303-006 Slide & Rollers	C303-006 Slide & Rollers
		C604-188 Slide Catch	C604-188 Slide Catch	C604-188 Slide Catch
		C604-191 Slide Catch Spring	C604-191 Slide Catch Spring	C604-191 Slide Catch Spring

Note: Old-Style parts are discontinued and not available.

CYLINDER UNITS AND PARTS

Schlage locks are provided with cylinder units precision built to extremely close tolerances and the highest standards of accuracy. Phosphor bronze springs, nickel silver keys and pins are used throughout the Schlage offering. The best combination of materials is used to ensure the manufacture of cylinders with ease of operation and long wear. To order single cylinder locks less cylinder units, change product suffix letter "P" to "L". Example: D53LD. To order double cylinder locks less cylinder units (locks will be furnished with temporary plastic cylinders to preserve timming), change product suffix letter "P" to "C". Example: D60CD. Primus® cylinders available when key control and physical security are important concerns.

23-013
Standard Cylinder

CYLINDER UNITS

Standard Cylinders	Primus Cylinders		Description	Design
	High Security	Controlled Access		
23-013	20-550	20-750	6 Pin unit	ATH, RHO, SPA
23-014	Not Available		6 Pin indicator unit (D85)	

23-014
Hotel Function
Indicator Cylinder

CYLINDER PARTS (Drawings are on page 43)

Symbol	Number	Description
A	33-006	Cylinder plug, 6 pin
B	33-216	Cylinder plug, indicator, 6 pin
C	34-101 thru 103	#1 thru #3 Top pin
D	34-202 thru 209	#2 thru #9 Master pin
E	34-300 thru 309	#0 thru #9 Bottom pin
F	A201-849	Body, 6 pin
G	C603-524	Bar & driver for 23-013
H	C604-348	Bar for 23-014
I	C503-113	Tumbler spring
J	C503-115	Retainer cap spring
K	C503-116	Retainer cap pin
L	C503-118	Retainer cap
M	C503-767	Driver for 23-014
N	C603-195	Obstruction pin for 23-014
O	C604-144	Indicator pin spring for 23-014
P	C604-371	Indicator pin for 23-014

Note: Use only flaked graphite for cylinder lubrication. Under no circumstance should any other type of material be introduced into the cylinder.
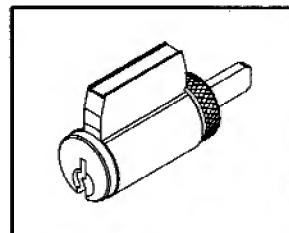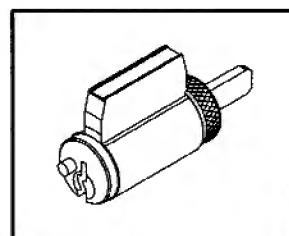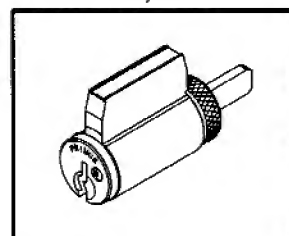
20-550
Primus High Security
U.L.437 Listed
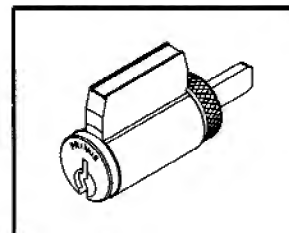
20-750
Primus Controlled Access
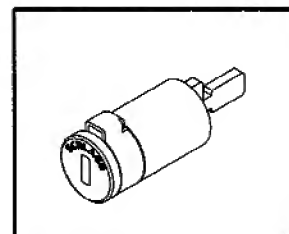
21-027
Temporary Plastic Cylinder

STANDARD CYLINDER

L

G

.640"

D

I

C

E

F

K

J

A

HOTEL FUNCTION INDICATOR CYLINDER

L

M

H

P

.720"

D

I

C

E

F

O

K

J

N

B
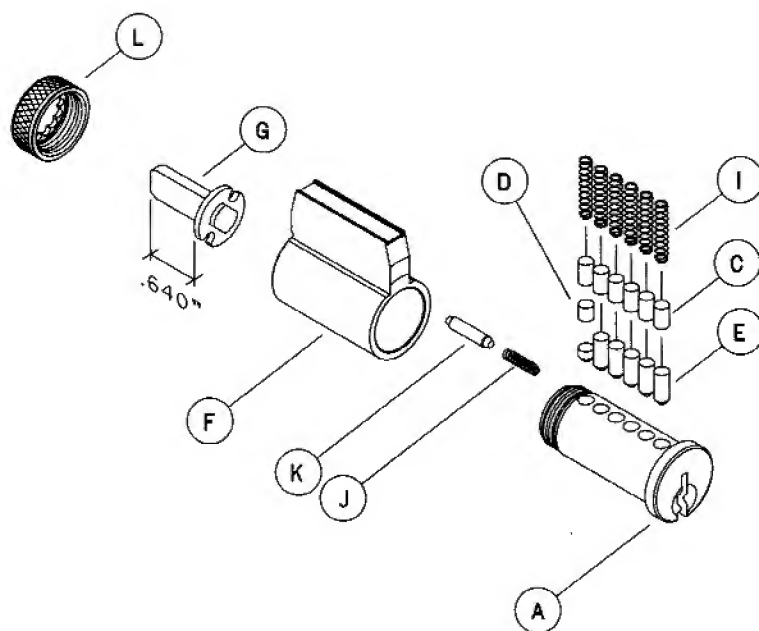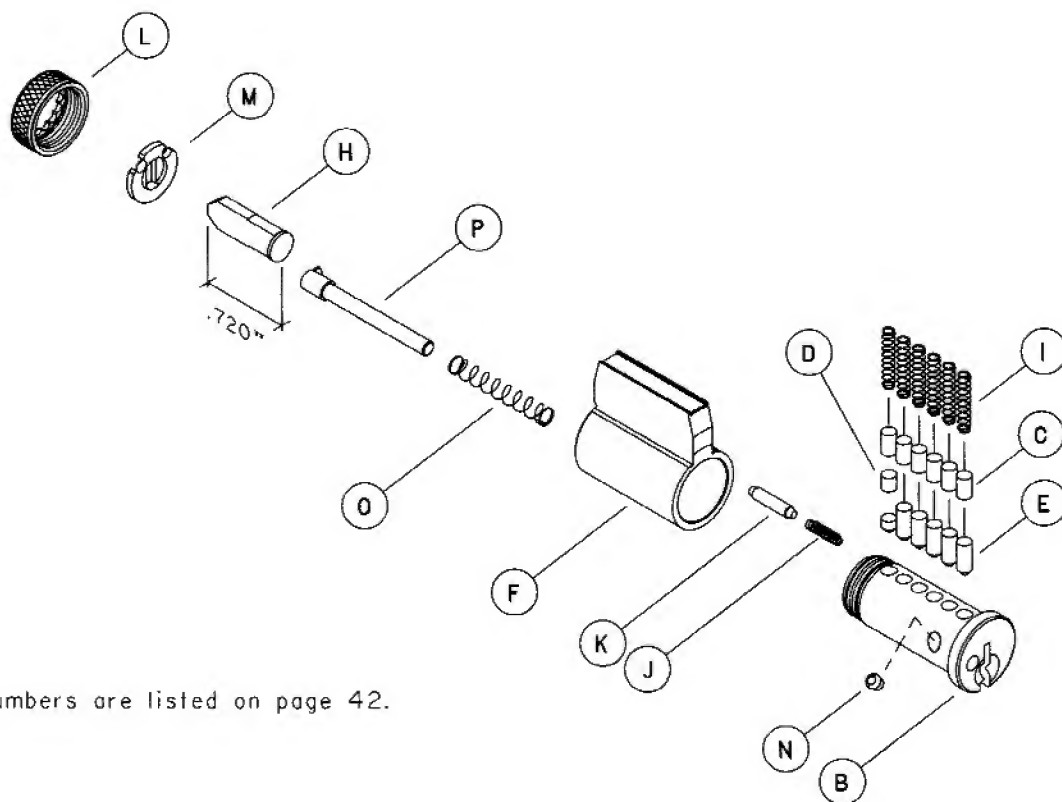
Note: Part numbers are listed on page 42.

LEVER DESIGNS AND LEVER INSERTS

Order by design code shown in parenthesis ().

Closed Levers
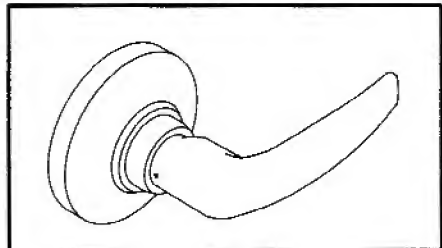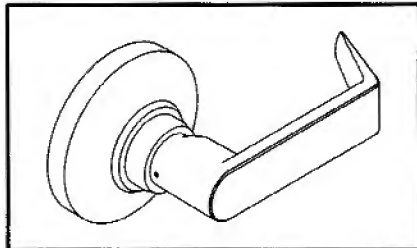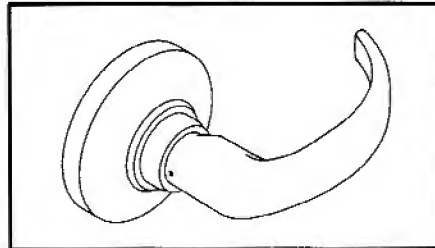
Athens (ATH)   Rhodes (RHO)   Sparta (SPA)

Open Levers For Plunger Units and Cylinders — "CD", "LD", "PD" Suffixes
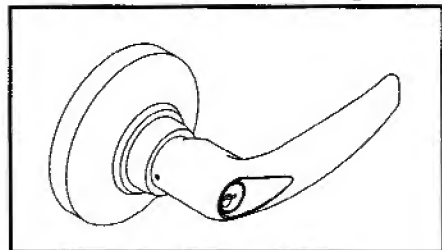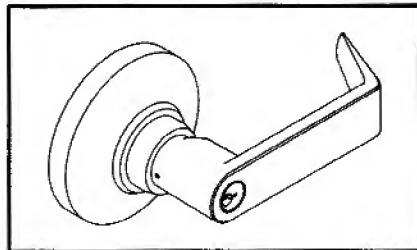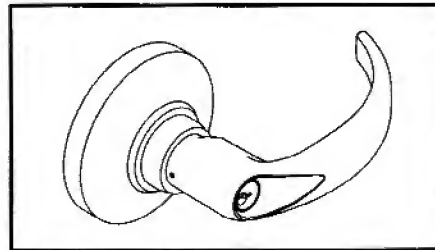
Athens (ATH)   Rhodes (RHO)   Sparta (SPA)

Small Format Interchangeable Core Lever — "BD" Suffix
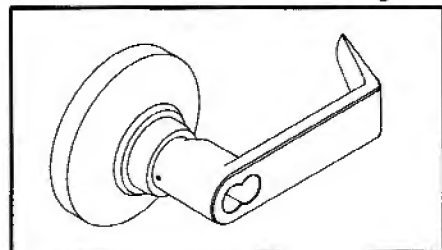
Rhodes (RHO)

Lever Inserts
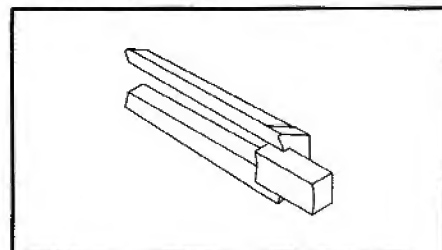
C604-330

For closed and open levers. Not used on
outside of Vandlgard functions.
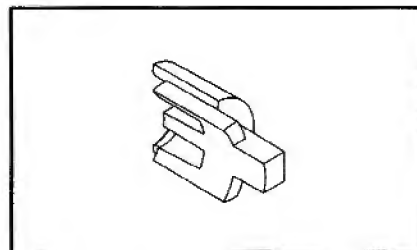
C604-380

For Small Format Interchangeable Core
Levers. Not used on Vandlgard functions.

INTERCHANGEABLE CORE LEVER DESIGNS AND LEVER INSERTS

Order by design code shown in parenthesis ().

Interchangeable Core Levers – "JD", "RD", "TD" Suffixes
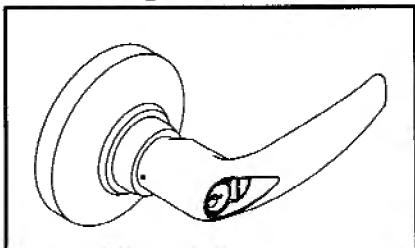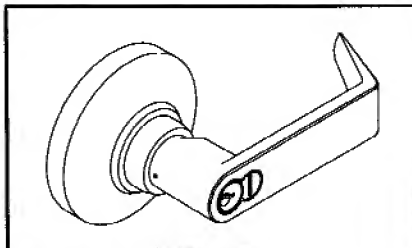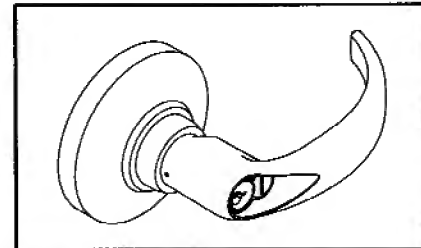
Athens (ATH)	Rhodes (RHO)	Sparta (SPA)

Interchangeable Core Lever Inserts

Manufactured Before 1998 (Black Plastic Filler In Back Of Lever)	
Non–Vandlgard Functions	Vandlgard Functions
C604-332 C604-263	C607-013

Note: Interchangeable core levers manufactured before 1998 are discontinued and not available.

Manufactured Since 1998 (Solid Die Cast Lever)	
Non–Vandlgard Functions	Vandlgard Functions
C604-416	Lever Insert Not Required

Note: Interchangeable core lever inserts manufactured since 1998 are not compatible with interchangeable core levers manufactured before 1998.

INTERCHANGEABLE CORES AND PARTS

Available for all D-Series keyed functions, except Hotel/Motel function D85, as complete locks or in retrofit kits. Existing installations can be retrofit without removing lock from door. To order locks with interchangeable cores, change product suffix letter "P" to "R". Example: D53RD. To order locks less interchangable cores, change product suffix letter "P" to "J". Example: D53JD. Primus ® cores are available when key control and physical security are important concerns.

INTERCHANGEABLE CORES
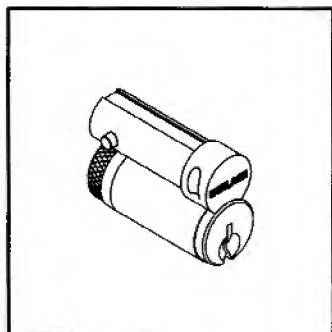
23-030
Interchangeable Core w/logo
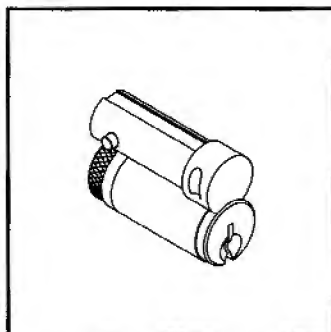
23-031
Interchangeable Core w/o logo
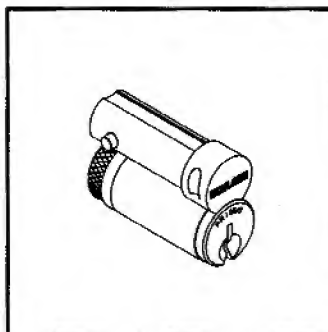
20-740
Primus Interchangeable Core, w/logo, Controlled Access
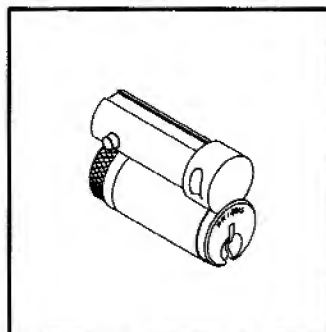
20-741
Primus Interchangeable Core, w/o logo, Controlled Access

INTERCHANGEABLE CORE ACCESSORY AND SERVICE PARTS

Number	Description
04-030	Lever & lever insert, driver, retainer, all functions
04-033	Driver and retainer
04-034	Lever & lever insert, core, driver, retainer, all functions
04-039	Lever & lever insert, non-Vandlgard functions
04-048	Lever, Vandlgard functions
C603-569	Retainer
C604-333	Driver
C604-416	Lever insert, non-Vandlgard functions
M504-142	Installation tool
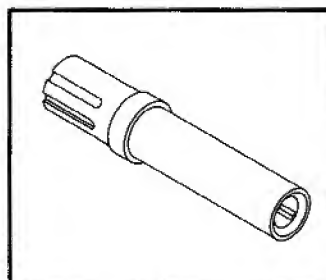
M504-142 Installation Tool
Order as needed per project.

Driver

Lever Insert
(Remove when installing on Vandlgard functions)

Lever

Core

Retainer
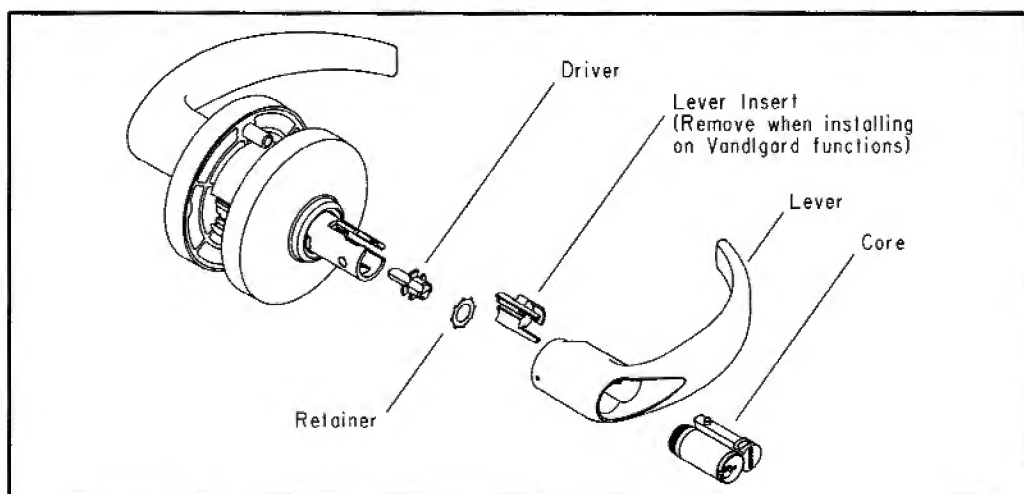
04-034 Retrofit Kit (See page 57 for retrofit kit instructions)

SCHLAGE.
June 1998

INTERCHANGEABLE CORE

To remove interchangeable core, insert control key and turn 15° to the right until action stops. Pulling on key will extract core from the lever. To install a new core, insert control key and and push core into housing, rotate key 15° to the right and insert core completely. Rotate key back to original position and remove control key.
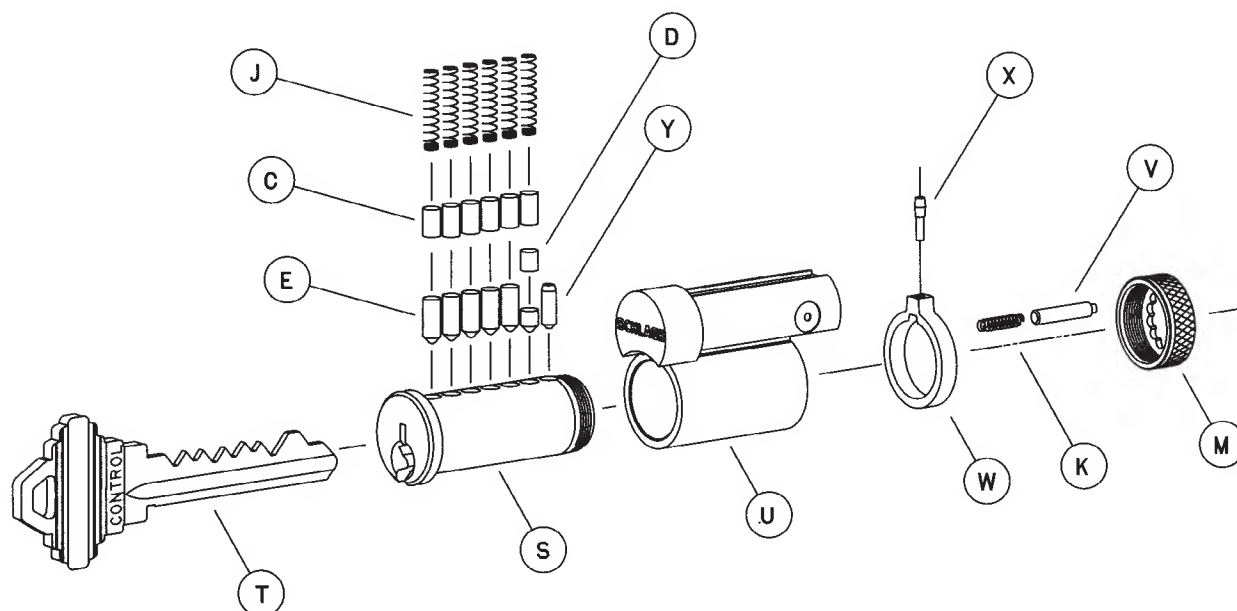
INTERCHANGEABLE CORE PARTS

Symbol	Number	Description
C	34-101 thru 103	#1 thru #3 Top pin
D	34-202 thru 209	#2 thru #9 Master pin
E	34-300 thru 309	#0 thru #9 Bottom pin
J	C503-113	Tumbler spring
K	C503-115	Retainer cap spring, for cores made before November 1997
M	C503-118	Retainer cap
S *	33-058	Plug, interchangeable core
T	35-056	Control key, blank
	48-056	Control key, cut
U *	B220-282	Interchangeable core body, w/logo
	B220-283	Interchangeable core body, w/o logo
V	C603-347	Retainer cap pin, for cores made before November 1997
W *	C603-956	Actuating ring
X *	C603-964	Actuating pin
Y *	C603-967	Control pin

* Parts not compatible with 23-020 cores manufactured before 1991.

Notes: 1) Assembly drawing shown is for cores made between 1991 and November 1997. Interchangeable core plugs made after November 1997 are factory assembled with retainer cap springs and retainer cap pins, and are compatible with cores made after 1991.

2) Use only flaked graphite for cylinder lubrication. Under no circumstance should any other type of material be introduced into the cylinder.

LATCHES

All D-Series latches have 1″ diameter housings and adjustable faceplates for flat or beveled doors.

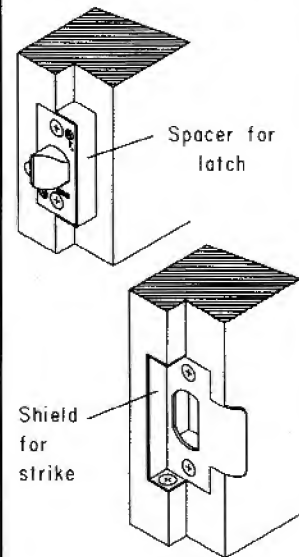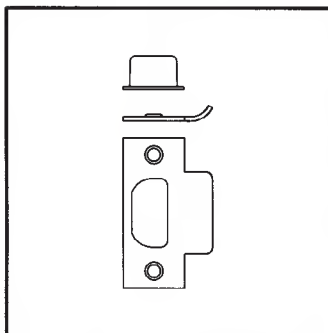### Square Corner Latches
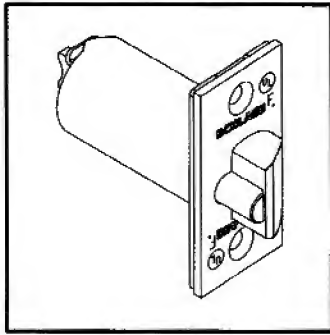
Deadlatch
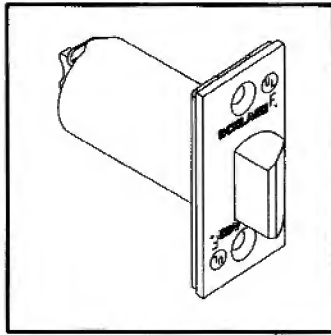
Springlatch

Fire Door Deadlatch

This kit adapts square corner latches and 2 3/4″ high strikes for 1/2″ rabbeted door and frame preparations. Latches and strikes not included.

Spacer for latch

Shield for strike
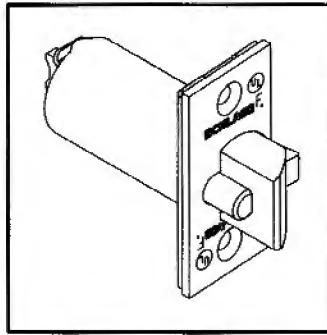
Latches

Backset	Faceplate Description	Deadlatch 1/2″ Throw	Springlatch 1/2″ Throw	Fire Door Deadlatch 3/4″ Throw
2 3/8″	1″ x 2 1/4″, Square corner	14-048	———	———
	1 1/8″ x 2 1/4″, Square corner	14-047	———	———
2 3/4″	**1 1/8″ x 2 1/4″, Square corner**	**14-019**	**14-001**	14-042
3 3/4″	1 1/8″ x 2 1/4″, Square corner	14-028	14-010	———
———	Rabbeted latch and strike kit		39-030	

Note: Standard latches are in bold print.

39-030
Rabbeted Latch and Strike Kit

STRIKES

10-013

Square Corner
Size: 1 1/8" x 2 3/4" x 3/32"
Lip Length: 1 1/8", 1 1/2".
Includes C603-623 strike box.
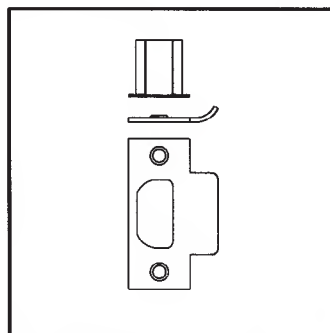
10-016

Square Corner Fire Door Latch
Size: 1 1/8" x 2 3/4" x 3/32"
Lip Length: 1 1/8", 1 1/2".
Includes B502-853 strike box.
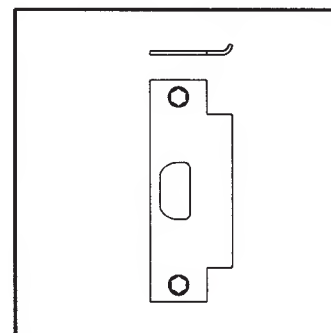
10-025 (Standard)

ANSI Prep. A115.2
Size: 1 1/4" x 4 7/8" x 3/32"
Lip Length: 1 3/16" (Std), 1 3/8"
If required, K510-066 strike
box must be ordered separately.
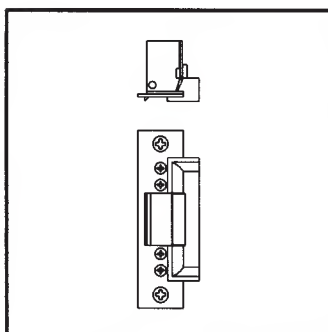
10-042

Electric Strike
Size: 1 1/4" x 4 7/8" x 3/32"
Voltage: 24VAC, 12VDC
Not designed for continuous
duty and electrical locking.
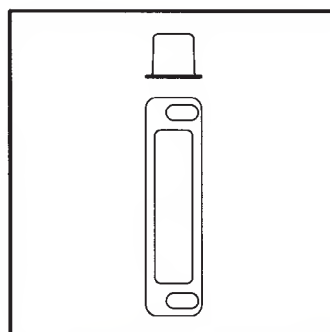
K510-066

ANSI Strike Box

Optional Tamper Resistant Torx Screw Packs

Number	Description
C203-311	(4) Latch and Strike Screws, #8-32 x 1/2" (T-15)
C203-312	(2) Latch Screws, #8-32 x 1/2" (T-15) (2) ANSI Strike Screws, #12-24 x 1/2" (T-20)

Torx Tools

Number	Description
M504-425	T-15 Torx Tool
M504-426	T-20 Torx Tool

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June 1998

INSTALLATION TOOLS AND KITS

Boring jigs and tools are designed to provide fast and accurate lock installation. Complete kits, contained in a heavy gage metal box, or individual tools can be ordered for preparing doors and jambs for Schlage products.

40-017
Castle Nut Wrench

M504-271
Catch Push Pin
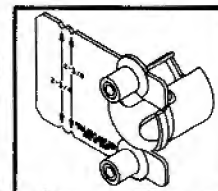
40-080
Drill Fixture
For thru bolts on AL and D-Series levers.

40-055
Installation Kit
For A, AL, D, S and F-Series Locks. Adjustable for 2 3/8", 2 3/4" and 5" backsets. Removable bushing adaptor for 7/8" latch hole. The boring jig integrates thru bolt hole locations for AL and D-Series levers. For door thickness 1 3/8" to 2 1/8".

40-069
Maintenance Kit
Designed for D-Series Lever Locks. Contains plunger sleeves, screw packs in various finishes, slide catches, and other service parts partially listed below.
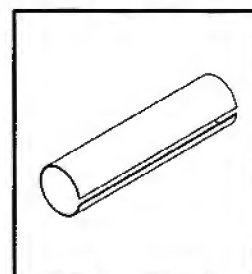
LONG BACKSETS

Backsets 5" and over require extension links. D-Series locks with long backsets are normally furnished with 1 1/8" faceplates and 1" housings. Links installed in hollow metal doors require one A501-567 sleeve (order separately) to join latch and link. Information on longer backsets is available upon request.

Extension Link

2 3/4" Backset Latch
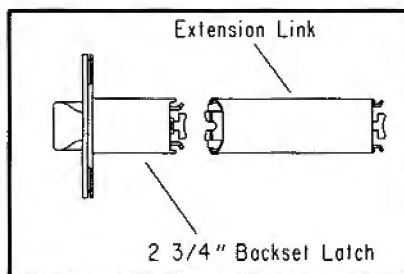
43-005
5" Extension Link

A501-567
Sleeve

| Number	Description	Number	Description
40-056	Boring Jig	C102-840	Cam & Plug
40-015	7/8" Boring Bit	C203-034	Spindle & Catch
40-018	1" Boring Bit	C303-006	Slide & Rollers
40-024	2 1/8" Boring Bit	C303-035	Spring Cage, In
40-029	Strike Marking Chisel, Full Lip	C303-036	Spring Cage, Out
		C303-418	Spindle & Catch
40-030	Strike Marking Chisel	C503-008	Cotter Pin
		C503-019	Slide Spring
40-031	Latch Marking Chisel, A,F,H	C503-314	Spring Seat
		C603-500	Housing
40-032	Latch Marking Chisel, B,D,H	C603-569	Retainer, I/C
		C604-191	Slide Catch Spring
40-035	Strike Locator, 7/8"	C604-330	Lever Insert
40-036	Strike Locator, 1"	C604-333	Driver, I/C
40-041	4" Bit Extension	C604-354	Castle Nut
40-050	Tool Box		
40-057	5/16" Boring Bit		
M507-347	Socket Wrench		

REINFORCEMENT KIT

The Schlage 37-001 reinforcement kit is to reinforce and help prevent the collapse of hollow metal doors when locksets are tightly mounted. This kit should be used with long backsets for installations in hollow metal doors to prevent lateral movement of latch bolt. Specify door thickness 1 3/8" or 1 3/4" when ordering.

Reinforcement
A501-565 – 1 3/8" doors
A501-566 – 1 3/4" doors

Sleeve
A501-567
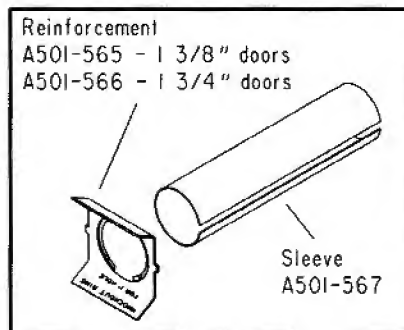
37-001
Reinforcement Kit
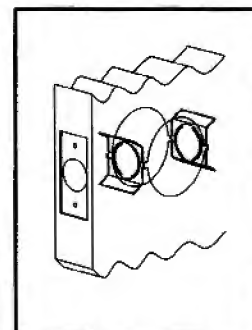
Placement of reinforcements in hollow metal door.

**SCHLAGE.**
June 1998

KEYING
Key Array Chart
The Schlage Masterkey Department determines and makes the final decision in the selection and use of key sections. Other keyways, than shown below, are available. Allocation of other keyways is based on need and extent of the final system. Priority is given to key systems that require a large number of cylinders and families of key sections to satisfy their keying requirements. Contact your Schlage representative for availibility of other keyways.
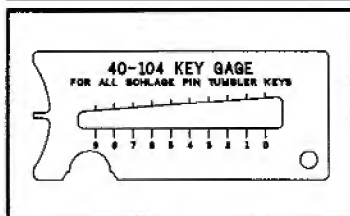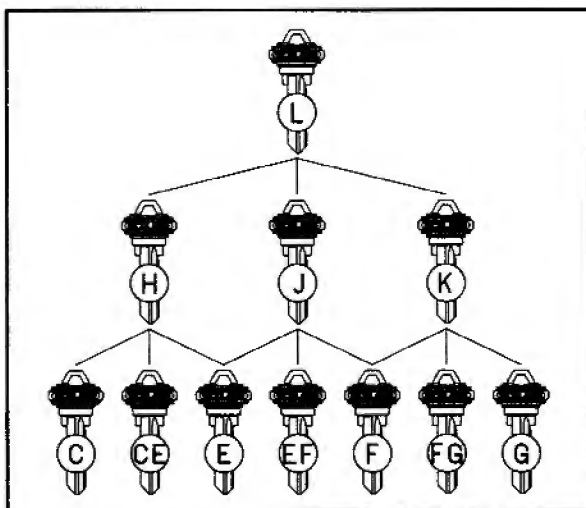
Key Gage
40-104

Order the Schlage key gage to accurately measure the depth of key cuts.
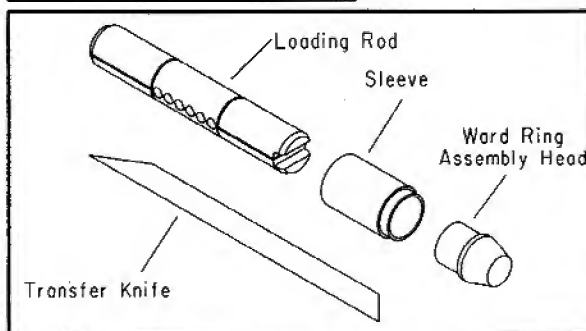
**Cylinder Body Loading Tool**
40-116
A compact precision tool for loading top pins and springs and for installation of ward rings into grooves of a warded cylinder plug.
Furnished with complete assembly instructions.

Pin Tumbler Keys
All Schlage locks come with two nickel silver keys as standard, embossed with our company logo. The nickel silver alloy from which all Schlage keys are made provides the base for accuracy in cutting and long cylinder wear. Schlage will stamp "DO NOT DUPLICATE" across the bow of all versions of its keys at no extra charge, when specified on orders.
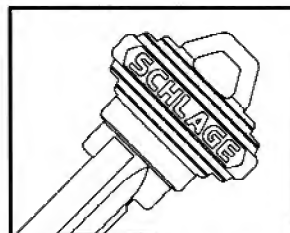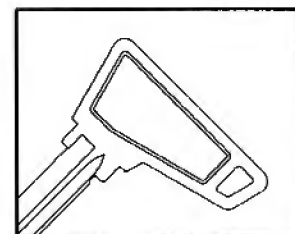

Embossed Both Sides
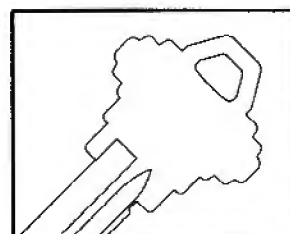35-100 (5 Pin standard)
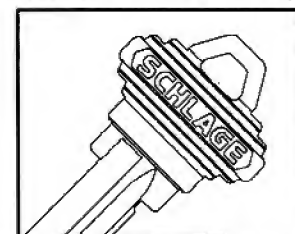35-101 (6 Pin)
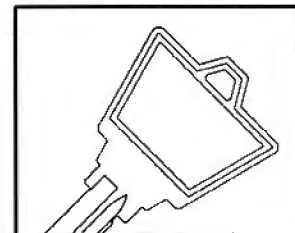
Large Bow
35-140 (5 Pin)
35-141 (6 Pin)
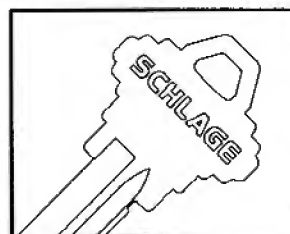
Stamped One Side
35-120 (5 Pin)
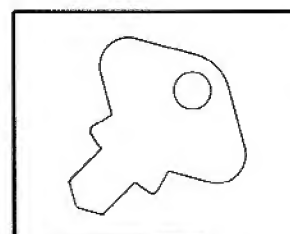35-121 (6 Pin)

Access Bow
35-143 (5 Pin*)
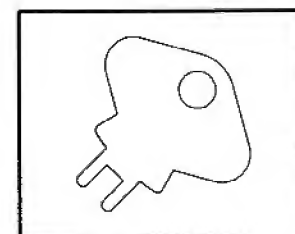35-144 (6 Pin)
*Available in C,E,F,and CE Only

Plain
35-130 (5 Pin)
35-131 (6 Pin)

Hotel Emergency Key
35-102 (6 Pin)

Emergency Key
D40S Function
35-250

Spanner Key
D85PD Function
35-251

INSTALLATION INSTRUCTIONS

NOTE: Accurate door preparation is essential for proper functioning of this lock. Follow template and instructions carefully.

DOOR AND JAMB PREPARATION

1

Mark door

a. Detach stub from template.

b. Fold template at correct marking for door bevel (high or low bevel, or flat). Position centerline of template on heightline (suggested height is 38" (97mm) from floor). Mark center for 2⅛" (54mm) hole. Also mark for (2) ⁵⁄₁₆" (8mm) holes for mounting screws.

c. Use stub to mark center of door thickness.

HINT: For retrofitting existing 2⅛" (54mm) holes, fold template in half to locate position for the (2) ⁵⁄₁₆" (8mm) holes.

Door bevel

Bore (4) holes

2
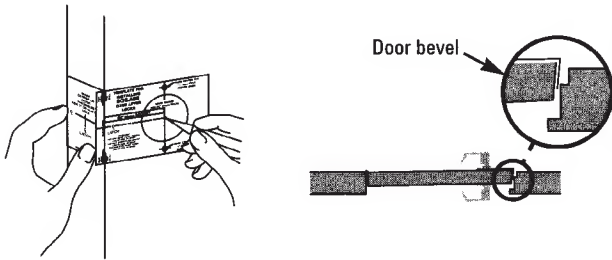
a. Bore a 2⅛" (54mm) hole and (2) ⁵⁄₁₆" (8mm) holes (bore holes from both sides of door to avoid splintering wood).

b. Bore a 1" (25mm) hole into door edge. Use faceplate to pattern for cutout. (Front should fit flush with door edge.) Install latch and secure with screws.

NOTE: We recommend using a drill guide to ensure straight holes.

⁵⁄₁₆" (8mm) Hole

1" (25mm) Hole

2⅛" (54mm) Hole

⁵⁄₁₆" (8mm) Hole

Use faceplate to pattern for cutout.

Install strike

3
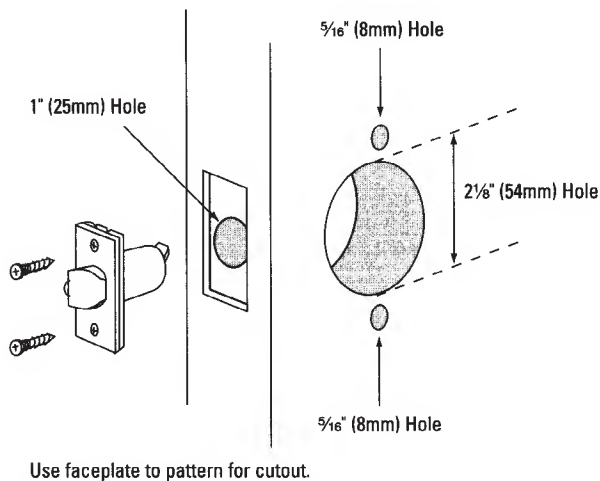
a. Mark vertical line and heightline on jamb exactly opposite center of latch hole.

b. Drill (2) 1" (25mm) holes, ¾" (19mm) deep, ⁵⁄₁₆" (8mm) above and below heightline.

c. Use strike plate to pattern for cutout. Clean out hole and install strike.

1" (25mm) Hole, ¾" (19mm) deep
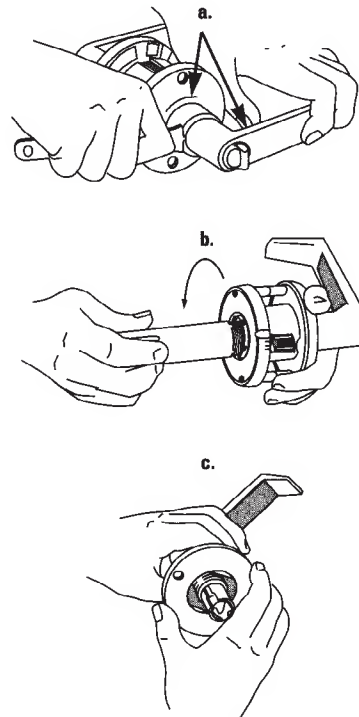
⁵⁄₁₆" (8mm)

⁵⁄₁₆" (8mm)
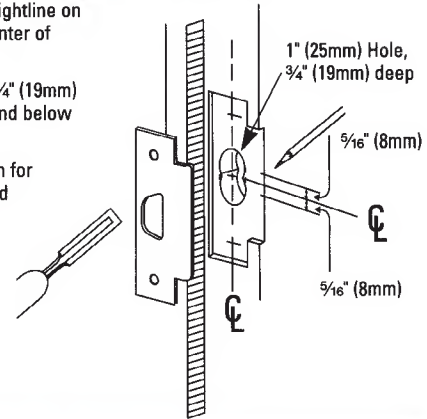
LOCK INSTALLATION

4

Disassemble inside trim

a. Insert pointed end of spanner wrench into hole in inside lever. Push to depress catch and remove lever. Also remove driver.

b. Unscrew and remove castlenut bushing. (Use metal tool or plastic tool provided.)

c. Remove spring cage.

a.

b.

c.

NSTALLATION INSTRUCTIONS

5
Install outside lock unit

IMPORTANT: This lock is factory preset for 1¾" (44mm) doors. See other side to center chassis in door or to change adjustment for other door thicknesses.

Place outside lock unit into position. Make sure that latch prongs engage chassis housing, and latch retractor engages latch bar.

Engage prongs
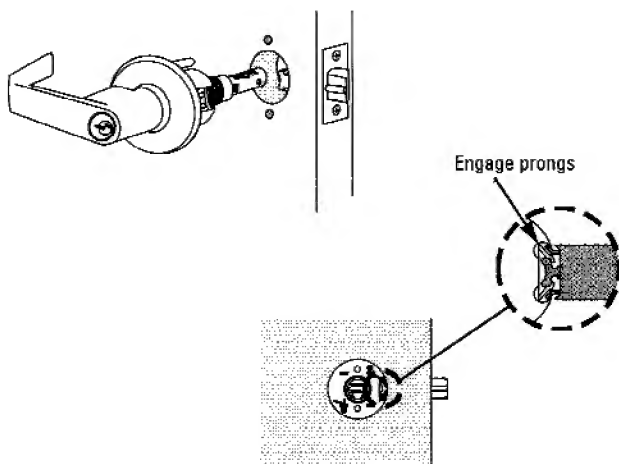
6
**Install inside assembly**

a. Hold outside lever in place.

b. Put spring cage into position on chassis.

c. Place castlenut bushing on threads of chassis. Hold outside lever in position while threading castlenut bushing onto chassis as far as it will go. (A ratcheting sound will be heard.) Fully tighten castlenut bushing against chassis with installation tool.

d. Insert and tighten mounting screws.

e. Retighten castlenut with installation tool.

CAUTION: When using power screwdriver for installation, set to minimum torque setting

a.
b.

c.
d.
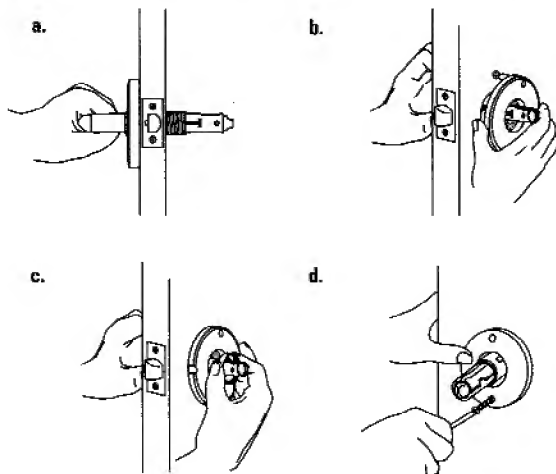
7
Install inside rose

Align dimples on rose with grooves in spring cage. Place rose against door and rotate clockwise until dimples snap into slots next to the grooves.

Dimple

Rose
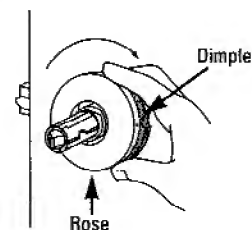
8
Install lever, insert, and driver

a. Assemble plastic insert into lever. (CAUTION: Insert must be used for lock to function properly.) Engage slot in driver with plastic insert.

b. Slide lever and insert onto spindle. Push lever completely into place. (Pull on lever to make sure that catch is fully engaged.)

a.

Insert

Lever   Driver

b.
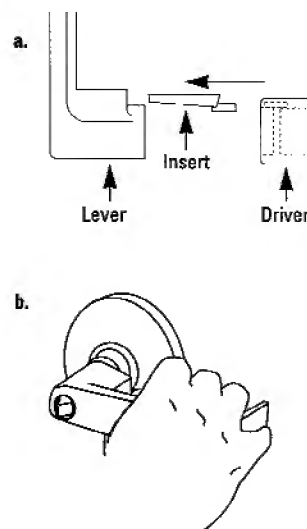
Test operation of lock with keys and levers to make sure that chassis adjustment and lock installation is correct.

SCHLAGE.
June 1998

INSTALLATION INSTRUCTIONS

HOW TO ADJUST FOR NON STANDARD DOOR THICKNESS	INTERCHANGEABLE CORE

Remove inside trim (See Lock Installation, Step 4.)

① Remove outside lever

a. **Non-keyed locks** (except D40S and D44S; See step B.) Place pointed end of spanner wrench into hole in lever. Push in to depress catch and remove lever and driver.
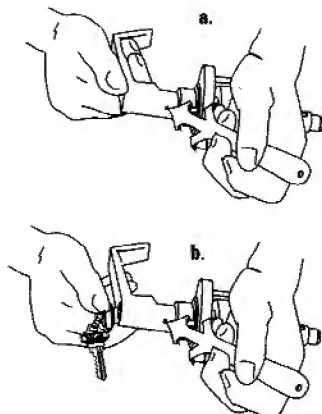
b. **Keyed Locks** and D40S and D44S functions (Use flat tip screwdriver instead of key for D40S; turn button on D44S.)

HINT: It is easier to remove a keyed lever if the lock is positioned in the door cutout.

Insert key into cylinder. Insert pointed end of spanner wrench (or similar tool) into hole in lever. Turn key one-quarter turn and push wrench to depress catch. Pull off lever.

② Adjust for door thickness

a. Place template against spring cage to find marking for door thickness.

b. Use installation tool to rotate castlenut bushing in the direction of adjustment. Again, use template markings to measure adjustment *before* installing lock on door.
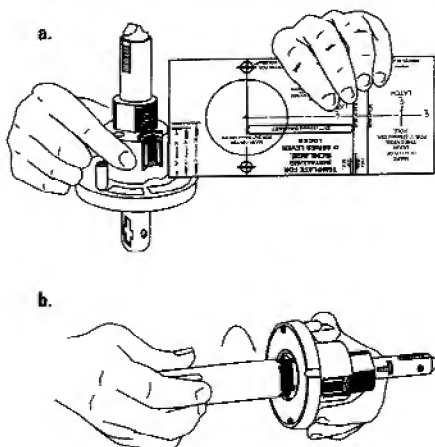
③ Reinstall lock

a. Assemble outside lever to chassis by reversing instructions in "How to adjust...", Step 1.

b. Install lock on door (see Steps 5 through 8). Test operation of lock to make sure trim is securely attached and lock functions properly.

How to remove core
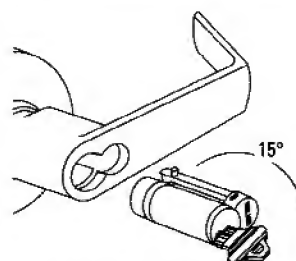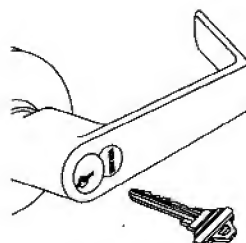
Insert control key and turn it clockwise 15 degrees until action stops. Pull on key to remove core.

How to replace core

Insert control key fully. Push core into lever as far as it will go. Turn key clockwise 15 degrees and push core completely into lever. Turn key back to normal position and remove from core.

Rotate key. Pull to remove.

Insert key. Rotate key to fully install core.

REMOVING AND REPLACING CYLINDER LEVERS

Locks with "PD" Suffix

Function	Instructions
D50, D53, D60 (outside), D80, D82 (outside and inside), D85, D91, D92, D96	**To Remove Lever:** 1. Insert M504-271 catch push pin into hole on side of lever. 2. Insert and turn key slowly while forcing in catch push pin. Gently pull off lever. **To Replace Lever:** 1. With key partially inserted and in horizontal position, slide lever onto spindle until it stops against lever catch. 2. Insert key fully and turn it (but not lever) slowly while pushing in on lever until lever is attached. Test by pulling on lever.
D60 (inside), D66 (outside and inside), D70, D73, D94	**To Remove Lever:** 1. Insert key in cylinder and turn to left as far as it will go. 2. Insert M504-271 catch push pin into hole on side of lever. 3. Turn key slowly to right while forcing in catch push pin. Gently pull off lever. **To Replace Lever:** 1. Use 1/4" wide flat tip screwdriver to engage slot in cam plug, located in spindle, and turn to left until cam plug stops turning. 2. With key partially inserted and in horizontal position, slide lever onto spindle until it stops against lever catch. 3. Insert key fully and turn it (but not lever) slowly to right while pushing in on lever until lever is attached. Test by pulling on lever. *If the key cannot be removed after one complete rotation to the right, repeat above instructions to remove and replace lever, paying close attention to Replacement Step 1.*

Locks with "BD", "JD", "RD", and "TD" Suffixes

Function	Instructions
D50, D53, D80, D91, D92, D96	**To Remove Lever With Core Installed:** 1. Insert M504-271 catch push pin into hole on side of lever. 2. Insert and turn key slowly while forcing in catch push pin. Gently pull off lever. **To Remove Lever Less Core:** 1. Insert M504-271 catch push pin into hole on side of lever. 2. Turn driver, located in spindle, with M504-142 installation tool or needle nose pliers (for "JD" suffix); or 3/8" wide flat tip screwdriver (for "BD" suffix) while forcing in catch push pin. Gently pull off lever. **To Replace Lever:** 1. With core removed, slide lever onto spindle until it stops against lever catch. 2. Turn driver slowly while pushing in on lever until lever is attached. Test by pulling on lever.
D70, D73, D94	**To Remove Lever With Core Installed:** 1. Insert key in cylinder and turn to left as far as it will go. 2. Insert M504-271 catch push pin into hole on side of lever. 3. Turn key slowly while forcing in catch push pin. Gently pull off lever. **To Remove Lever Less Core:** 1. Turn driver, located in spindle, to left as far as it will go with M504-142 installation tool or needle nose pliers (for "JD" suffix); or 3/8" wide flat tip screwdriver (for "BD" suffix). 2. Insert M504-271 catch push pin into hole on side of lever. 3. Turn driver slowly to right while forcing in catch push pin. Gently pull off lever. **To Replace Lever:** 1. Turn driver to left until it stops turning. 2. With core removed, slide lever onto spindle until it stops against lever catch. 3. Turn driver slowly to right while pushing on lever until lever is attached. Test by pulling on lever. *If the key cannot be removed after one complete rotation to the right, repeat above instructions to remove and replace lever, paying close attention to Replacement Step 1.*

ELECTRIFIED LOCK INSTRUCTIONS

D-Series Electrified Locks

D12DEL
D80PDEL

D12DEU
D80PDEU

Electrically Locked (Fail Safe): Auxiliary latch deadlocks latchbolt when door is closed. Outside knob or lever continuously locked electrically until unlocked by key, switch, or power failure. Inside knob or lever always free for immediate exit.

Electrically Unlocked (Fail Secure): Auxiliary latch deadlocks latchbolt when door is closed. Outside knob or lever continuously locked until unlocked by key or electrical current. Inside knob or lever always free for immediate exit.

D-Series Typical Installation

* Provision must be made to route low voltage wires to the lock. Attach wires to 6″ pigtail of rectifier (for AC operation) or solenoid (for DC operation).

* Power transfer unit and low voltage wiring are not furnished.

* All power requirements shown are for single lock operation. For multi-lock installations, powered by a single supply, current values must be increased accordingly.

* Select proper wire size to minimize voltage drop. Voltage requirements indicated must be maintained at lock for dependable operation.

Electrical Requirements for EL or EU

Amps .15; Volts 24 AC.
Amps .35; Volts 24 DC.
Operating Temperature: Maximum +151°F, Minimum -31°F
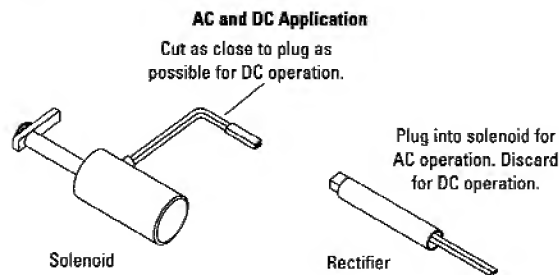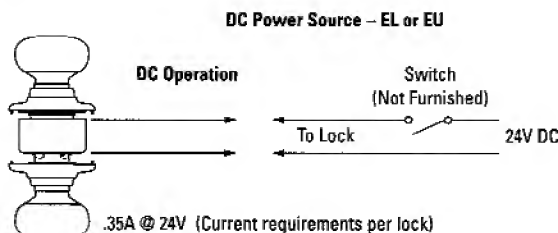
Replacement Kit

38-064 – Solenoid and Rectifier, EL (AC and DC)
38-065 – Solenoid and Rectifier, EU (AC and DC)

NOTE: Spacer furnished with replacement kits to be placed between solenoid and knob catch on knob designs only.

Typical Wiring Diagram for Electrified D-Series Locks

AC Power Source – EL or EU

AC Operation

Rectifier

Switch (Not Furnished)

Transformer (Not Furnished)

To Lock   24V AC   115V AC

Plug

Rectifier used on AC operation unit only.
.15A @ 24V (Current requirements per lock)

DC Power Source – EL or EU

DC Operation

Switch (Not Furnished)

To Lock   24V DC

.35A @ 24V (Current requirements per lock)

AC and DC Application

Cut as close to plug as possible for DC operation.

Plug into solenoid for AC operation. Discard for DC operation.

Solenoid

Rectifier

All installations should be in accordance with local electrical codes and National Electrical Code, NFPA 70-1996.

INTERCHANGEABLE CORE RETROFIT KIT INSTRUCTIONS

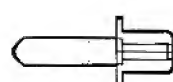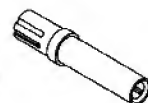| **A-Series Kit:**				**D-Series Kit:**				
Knob				Knob or Lever				
Driver				Driver				
Retainer		←— 1⅜″ —→		Retainer		←— ³¹⁄₃₂″ —→		Installation Tool
Interchangeable Core	Driver		Retainer	Interchangeable Core	Driver		Retainer	(Order Separately)

① Remove Knob or Lever and Cylinder

To remove existing knob or lever from lock assembly, insert pointed end of spanner wrench* or small nail into hole in hub cap (A-Series), knob sleeve (D-Series knobs) or lever (D-Series levers). Exert pressure on wrench while turning key slowly until knob catch depresses and pull off knob or lever.
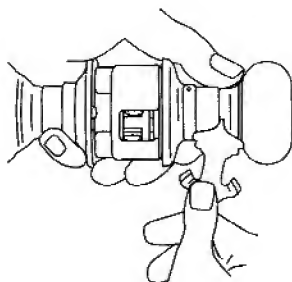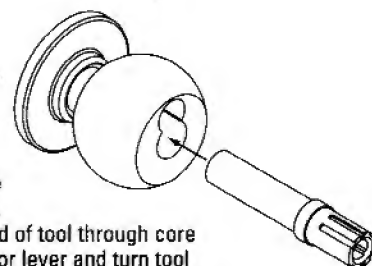
Spanner wrench normally furnished with locks using threaded roses.

② Install Interchangeable Core Driver and Retainer

Note: Illustration is for A-Series locks. Use smooth end of installation tool for D-Series locks.
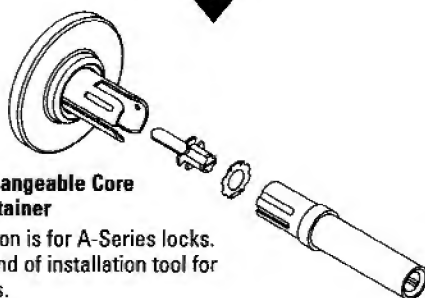
Place retainer and driver on end of installation tool as shown. The bent tabs of the A-Series retainer must be angled away from the driver and must line up with the top and bottom slots in the spindle. Install the driver so the timing line is horizontal, or parallel with the latch. Insert installation tool into spindle and push in until it stops. Remove installation tool.

③ Install Interchangeable Core Knob or Lever

Slide knob or lever onto spindle up to knob catch. Insert smooth end of tool through core opening in knob or lever and turn tool until it engages the driver. Insert pointed end of spanner wrench or similar tool into hole in hub cap (A-Series) or on knob catch (D-Series knobs). Turn installation tool clockwise, exert pressure on spanner wrench until knob catch depresses (not required for D-Series levers) and push knob or lever into place. Pull on knob or lever to be sure catch is engaged.

④ Install Interchangeable Core

With control key fully inserted, push core into knob or lever housing, rotate key 15° clockwise and insert core completely. Remove control key.
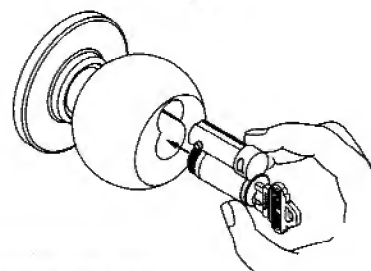
DOOR HANDING

All Schlage locks are reversible. Hand information is necessary to ensure proper finish of latchbolt and strike for locks ordered that are to be installed on reverse bevel doors. Follow the diagram to correctly determine the hand of the door.

LH	RH
Left Hand	Right Hand
LR	RR
Left Hand Reverse	Right Hand Reverse

ORDERING PROCEDURES

To order Schlage products, descriptive data should be in the same sequence as shown.

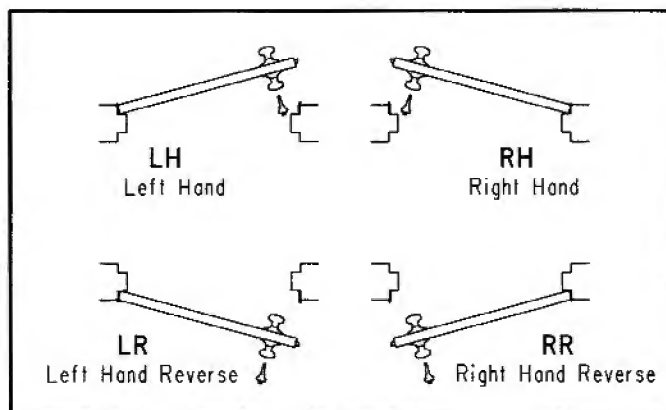| Line Item	Qty	Product	Outside		Inside		Hand	Latch	Strike	Dr Thk	Ext	Dim	Additional Details
			Des	Fin	Des	Fin							
1	2	3	4	5	6	7	8	9	10	11	12	13	14

1. Line item number.
2. Quantity.
3. Complete lock product or part number.
4. Outside design code.
5. Outside finish code.
6. Inside design code. Leave blank if same as outside design code.
7. Inside finish code. Leave blank if same as outside finish code.
8. Hand of door. Only one hand allowed per line item. Example: RH=Right Hand, LH=Left Hand, RR=Right Reverse, LR=Left Reverse.
9. Latch. Leave blank for standard or specify part number if non-standard latch is required. LLL=Less latch.

10. Strike. Leave blank for standard or specify part number if non-standard strike is required. LLL=Less Strike.
11. Door Thickness. Enter door thickness if non-standard. Example: 138= 1 3/8", 214= 2 1/4", 212= 2 1/2".
12. Extension.
    Enter one of the following when doors 2" thick or greater are specified:
    EE = Extended Equally,
    EI = Extended Inside,
    EO = Extended Outside,
    ED = Extended Differently.
    EI or EO assumes the latch will be centered on a 1 3/4" thick door, to which material has been added.

13. Enter dimension for non-standard strike lip length and mortise cylinder or blocking ring length.
    Example:

012 = 1/8"	118 = 1 1/8"
018 = 3/16"	114 = 1 1/4"
025 = 1/4"	138 = 1 3/8"
031 = 5/16"	112 = 1 1/2"
037 = 3/8"	158 = 1 5/8"
050 = 1/2"	134 = 1 3/4"
078 = 7/8"	200 = 2"
100 = 1"	400 = 4"

14. Enter detail for keying information and for special requirements.

ORDERING EXAMPLES

Line Item	Qty	Product	Outside		Inside		Hand	Latch	Strike	Dr Thk	Ext	Dim	Additional Details
			Des	Fin	Des	Fin							
1	50	D53PD	RHO	626				14-047	10-013				KEYED C000000
2	5	D96RD	8RO	612			RHO					138	KEYED E111111, KNURLED O/S LEVER
3	10	D40S	SPA	605		625	LR						W/43-005 EXT. LINK
4	12	D53LD	ATH	625						138			LESS CYLINDER
5	12	20-750		626									

NOTE: Schlage order forms are available at no charge by contacting your Schlage Representative or Customer Service.

SCHLAGE.
June 1998

LIMITED WARRANTY

Schlage Lock Company (the "Company") warrants to the original purchaser that the products manufactured by it (the "Product") to be free of defects in material and workmanship. Provided: (i) The Company has been notified within one year of purchase date and been given the opportunity of inspection by return of any alleged defective Product to the Company, or its authorized distributor, at the address specified herein, free and clear of all liens and encumbrances, transportation prepaid, accompanied by the statement of defects and proof of purchase; and (ii) The Product has not been modified, abused, misused, or improperly installed, maintained and/or repaired during such period; and (iii) Such defect has not been caused by corrosion or ordinary wear and tear.

Vandlgard WARRANTY

Same as limited warranty, except the D-Series Vandlgard functions are warranted to be free from defects in material and workmanship for a period of five (5) years from the date of purchase.

THE COMPANY MAKES NO OTHER WARRANTY, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THE EXPRESSED WARRANTY PERIOD AS SET FORTH ABOVE.

THE COMPANY'S MAXIMUM LIABILITY HEREUNDER IS LIMITED TO THE PURCHASE PRICE OF THE PRODUCT. IN NO EVENT SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, INCIDENTAL OR SPECIAL DAMAGES OF ANY NATURE ARISING FROM THE SALE OR USE OF THIS PRODUCT, WHETHER IN CONTRACT, TORT, STRICT LIABILITY OR OTHERWISE.

NOTE:

Should the Product be considered a consumer product as may be covered by the Magnusson Moss Federal Warranty Act, please be advised that: (I) Some states do not allow limitations on incidental consequential damages or how long an implied warranty lasts so that the above limitations may not fully apply; (2) This warranty gives specific legal rights and a buyer may also have other rights which may vary from state to state. For warranty service and shipping instructions, contact the Schlage Lock Company:

Customer Service Department
2401 Bayshore Boulevard
San Francisco, California 94134
(800) 847-1864

The Schlage Lock Company reserves the right to make changes in designs and specifications or to make additions or improvements on its products without notice and without incurring any obligation to incorporate them on products previously manufactured. The Schlage Lock Company is not responsible for any modification addition or alteration to our products by others.

NOTES

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FAX (800) 452-0663
FAX (800) 616-6040
Order Entry
(800) 452-0665

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